

ORDER NO. ITD0207015C0

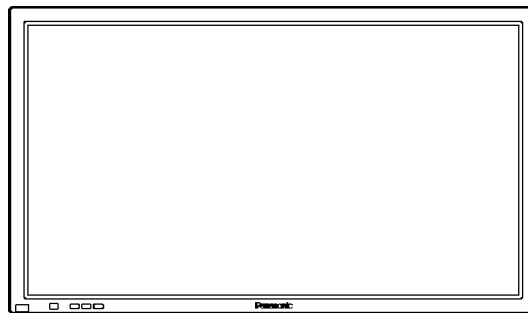
D10 Canada:B07

Service Manual

Wide Plasma Display

TH-50PHD5 / TH-50PHW5

GPH5D2 Chassis



SPECIFICATIONS

Specifications

Power Source:	AC120V 50/60Hz (UY/UZ version) AC220-240V 50/60Hz (Except UY/UZ version) model)
Power Consumption:	495 W 2.4W (stand-by condition) (UY/UZ version) 3.0W (stand-by condition) (Except UY/UZ version model) 0.9W (Power off condition) (UY/UZ version model) 1.7W (Power off condition) (Except UY/UZ version model)
Plasma Display panel:	Drive method AC type 50-inch, 16:9 aspect ratio
Contrast Ratio	3000:1
Screen size:	1,106 mm (W)×622 mm (H) 1,269 mm (diagonal) No. of pixels 1,049,088 (1,366 (W)×768 (H)) [4,098×768 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %

Horizontal scanning frequency 15.6 - 110kHz

Vertical scanning frequency 48 - 120Hz

Connection terminals:

AV

Video in	1.0 Vp-p (75-ohm)
S-VIDEO IN / (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN / (RCA PIN JACK × 2)	0.5 Vrms (high impedance)

COMPONENT/RGB

Y/G	1.0 Vp-p/composite (75-ohm) 0.7 Vp-p/non-composite (75-ohm)
PB /B	0.7 Vp-p (75-ohm)
PR /R	0.7 Vp-p (75-ohm)
HD	1.0 - 5.0 Vp-p (high impedance)
VD	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (RCA PIN JACK×2)	0.5 Vrms (high impedance)

PC

(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm) HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3 JACK)	0.5Vrms (high impedance)

SERIAL

EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
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SPEAKERS (External speakers)	6 Ω 16W [8W+8W] (10% THD)
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Dimensions (W×H×D): 47.6" (1,210 mm)×28.5" (724mm)×3.9" (98 mm)

Weight (Mass) approx. 94.8 lbs (42.5 kg) (main unit only)
approx. 104.9 lbs (47.1kg) (with speakers)

Panasonic®

1. Applicable signals

VIDEO input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

*** Mark:**
By installing the optional
Terminal Board.

COMPONENT/RGB/PC/DVI input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	RGB	PC	DVI
1	525(480)/60i	15.734	59.94	*	*	*	
2	625(575)/50i	15.625	50	*	*	*	
3	525(480)/60p	31.468	59.94	*	*	*	
4	625(575)/50p	31.25	50	*	*	*	
5	750(720)/60p	45	60	*	*	*	
6	1125(1080)/60i	33.75	60	*	*	*	
7	1125(1080)/50i	28.125	50	*	*	*	
8	1125(1080)/24p	27	24	*	*	*	
9	1125(1080)/24sF	27	48	*	*	*	
10	640 × 400@70	31.5	70		*	*	
11	640 × 480@60	31.5	59.94		*	*	*
12	Macintosh13"(640 × 480)	35	67		*	*	
13	640 × 480@75	37.5	75		*	*	
14	852 × 480@60	31.7	60		*	*	*
15	800 × 600@60	37.9	60		*	*	*
16	800 × 600@75	46.9	75		*	*	
17	800 × 600@85	53.7	85		*	*	
18	Macintosh16"(832 × 624)	49.7	75		*	*	
19	1,024 × 768@60	48.4	60		*	*	*
20	1,024 × 768@70	56.5	70		*	*	
21	1,024 × 768@75	60	75		*	*	
22	1,024 × 768@85	68.7	85		*	*	
23	Macintosh21"(1,152 × 870)	68.7	75		*	*	
24	1,280 × 1,024@60	64	60		*	*	
25	1,280 × 1,024@75	80	75		*	*	
26	1,280 × 1,024@85	91.1	85		*	*	
27	1,600 × 1,200@60	75	60		*	*	

2. Safety Precautions

2.1. General Guidelines

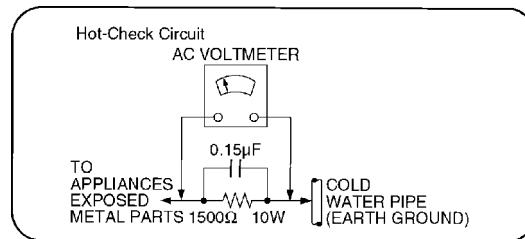
1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc.

When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{M } \Omega$ and $5.2\text{M } \Omega$. / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

Figure 1



2.1.2. Leakage Current Hot Check (See Figure 1 .)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{k } \Omega$, 10 watts resistor, in parallel with a $0.15 \mu \text{ F}$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1 .
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.


3. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of

component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
Caution
Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4. About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and (Cu) although other types are available.

This model uses Pb Free solder in its manufacture due to environmental conservation issues.

For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol



stamped on the back of PCB.

Caution

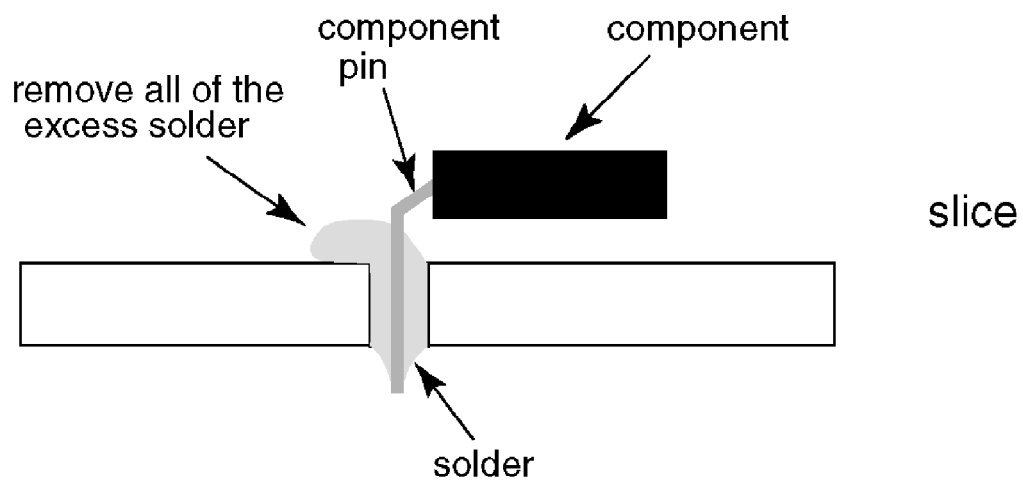
- Pb free solder has a higher melting point than standard solder.

Typically the melting point is 50 ~ 70 ~F (30~40~C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 ~F (370 ± 10 ~C).

- Pb free solder will tend to splash when heated too high (about 1100 ~F or 600~C).

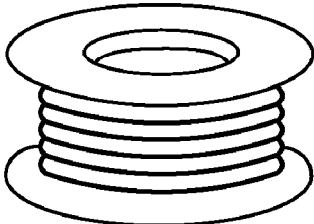
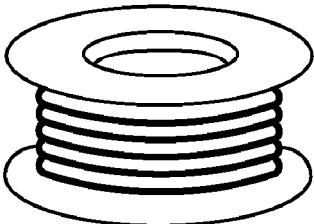
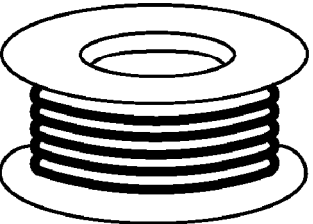
If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.

- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

5. PCB Structure sheet of GPH5D2 chassis

Board Name	Function	Remarks
D1	Format Converter	1
D2	Plasma AI Sub-Field Processor	1
Z	Audio out	
SS	Scan out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Upper Left)	
C2	Data Drive (Upper Center)	
C3	Data Drive (Upper Right)	
C4	Data Drive (Lower Right)	
C5	Data Drive (Lower Center)	
C6	Data Drive (Lower Left)	
C9	Energy recovery circuit	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
F	Line filter	
P	Power supply	1
P3	Drive voltage oscillator	
P5	Primary oscillator	
P6	PFC oscillator	
P7	Drive voltage protection	
P8	Process voltage protection	
HX	PC_type_Input terminal	
HY	BNC_type_Input terminal	2
HZ	RCA type_Input terminal	3

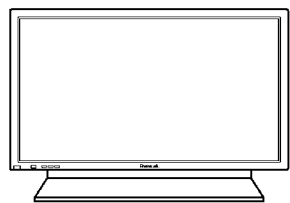
Remarks

1. Recommend PCB's for initial service for GPH5D2 chassis.
2. For System model except BX, EX version
3. For Consumer model except BX, EX version

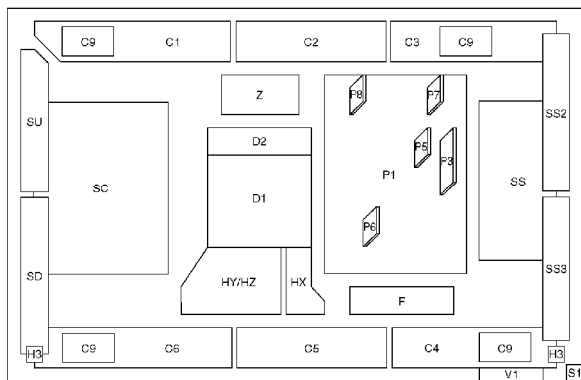
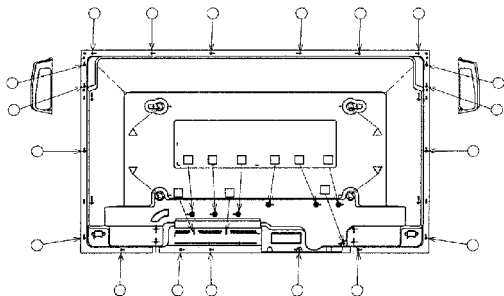
6. Service Hint

Remove the Back Cover

Stand the Unit used for Optional Accessory



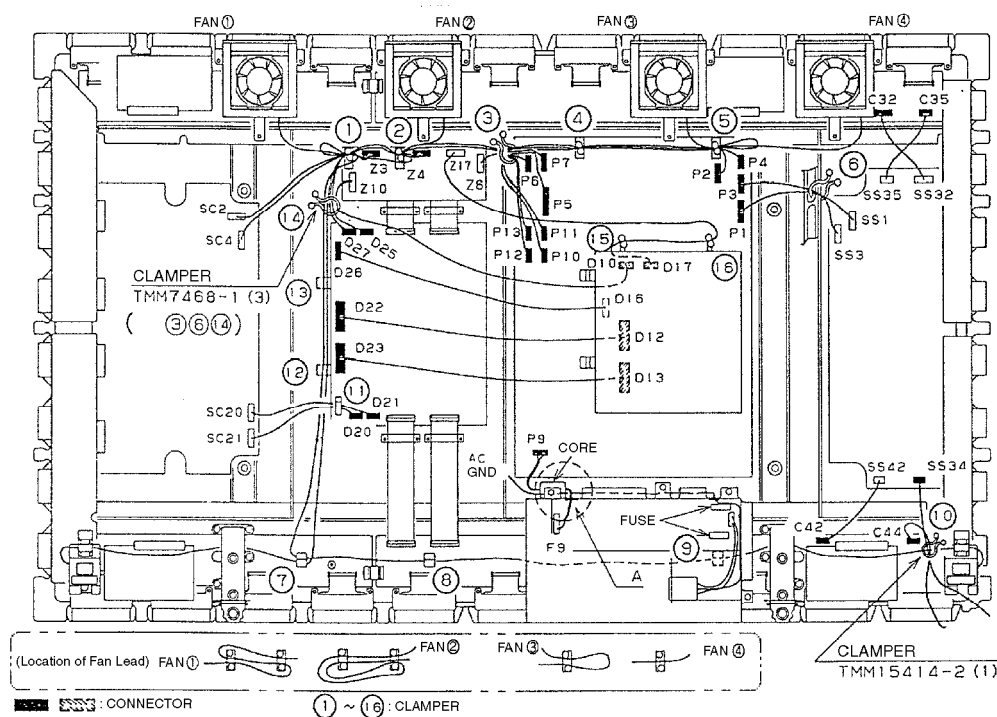
Optional Accessory
(Pedestal)



Remove: 4 screws (Δ) XYN8+F20FZ
5 screws (□) THEL023Z
18 screws (O) XYN4+F38FZ

Service Position

7. Location of Lead Wiring



CON:NO	CON:NO	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯
Z3	H37	○	○					○					○	○	○		
Z4	H37	○	○					○	○	○	○		○	○	○		
SC2	P2	○	○	○	○	○											
SC4	P4	○	○	○	○	○											
SC20	D20											○					
SC21	D21											○					
Z10	D10													○			
Z17	D17															○	○
Z6	P6			○													
D25	P5	○	○	○											○		
D27	P7	○	○	○											○		
P3	SS3						○										
P1	SS1						○										
POWER SW	C44										○						
INPUT SW	SS34										○						
FAN1	P10~P13	○	○	○													
FAN2	P10~P13	○	●	○													
FAN3	P10~P13			○	○	○											
FAN4	P10~P13			○	○	○											

○ Wind up second times. ● Wind up third times.

Connector Connection

D21, D21, D22, D23, D25, D26, D27, D10, D12, D13, D17,
P1, P2, P3, P4, P5, P6, P7, P9, P10, P11, P12, P13,
C32, C35, C42, C44,
SS34,
AC INLET

8. Adjustment Procedure

8.1. +B Set-up

8.1.1. Item / Preparation

1. Input a Grey scale signal.
2. Set the picture controls: -
 Picture mode: Normal
 White balance: Normal

8.1.2. Adjustments

Adjust and confirm indicated test point for the specified voltage.

Adjust

Name	Test point	Voltage	Volume
PFC	P24 pin 1	400V \pm 1V	R548
Vsus	P1 pin 2	175V \pm 1V	R639
Vda	P3 pin 1	75.0V \pm 0.5V	R545

Confirm

Name	Test point	Voltage
+18V	P4 pin 1	17.2V \pm 0.5V
+13.5V	P5 pin 1	13.2V \pm 0.5V
Audio +15V	P6 pin 1	13.5V \pm 0.5V
Audio -15V	P6 pin 3	-13.5V \pm 0.5V
5.25V	P5 pin 5	5.1V \pm 0.3V
STB5V	P7 pin4	5.0V \pm 0.3V

8.2. Driver Set-up

8.2.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -
 Picture mode: Normal
 White balance: Cool
 Aspect: 16:9

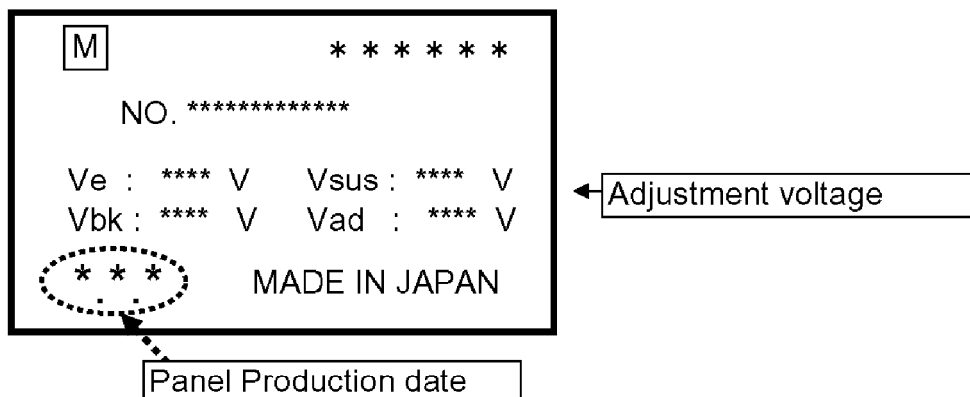
8.2.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test point	Voltage	Volume
Vsus	TPVSUS (SS-BOARD)	Vsus $\pm 1V^*$	R639 (P3-BOARD)
Vbk	TPVBK (SC-BOARD)	Vbk $\pm 5V^*$	R6670 (SC-BOARD)
Ve	TPVE (SS-BOARD)	Ve $\pm 1V^*$	R6770 (SS-BOARD)
Vset	TPVSET (SC-BOARD)	218 V $\pm 6V$	---
Vad	TPVAD (SC-BOARD)	Vad $\pm 1V^*$	R6477 (SC-BOARD)
Vda	TP117 (C9-BOARD)	74V $\pm 1V$	R545 (P1-BOARD)
Vscn	TPVSCN (SC-BOARD)	Vad+118 $\pm 2V$	---

*See the Panel label.

Panel Label information



Panel Production date

For Example

1 .	7 .	1	-- > Beg. of July, 2001
Year	Month		
		1	Beginning of Month (1-10)
		2	Middle of Month (11-20)
		3	End of Month (21-31)
	1	January	
	2	February	
	3	March	
	:	:	
	9	September	
	O	October	
	N	November	
	D	December	
9	1999		
0	2000		
1	2001		
:			

8.3. Initialization Pulse Adjust

1. Input a Cross hatch signal.

2. Set the picture controls: -

Picture mode: Normal

White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	R6523 (SC)	\neq 0 Sec
T2	TPSC1 (SC)	R6557 (SC)	170 \pm 10 μ Sec

8.4. P.C.B. (Printed Circuit Board) exchange

8.4.1. Caution

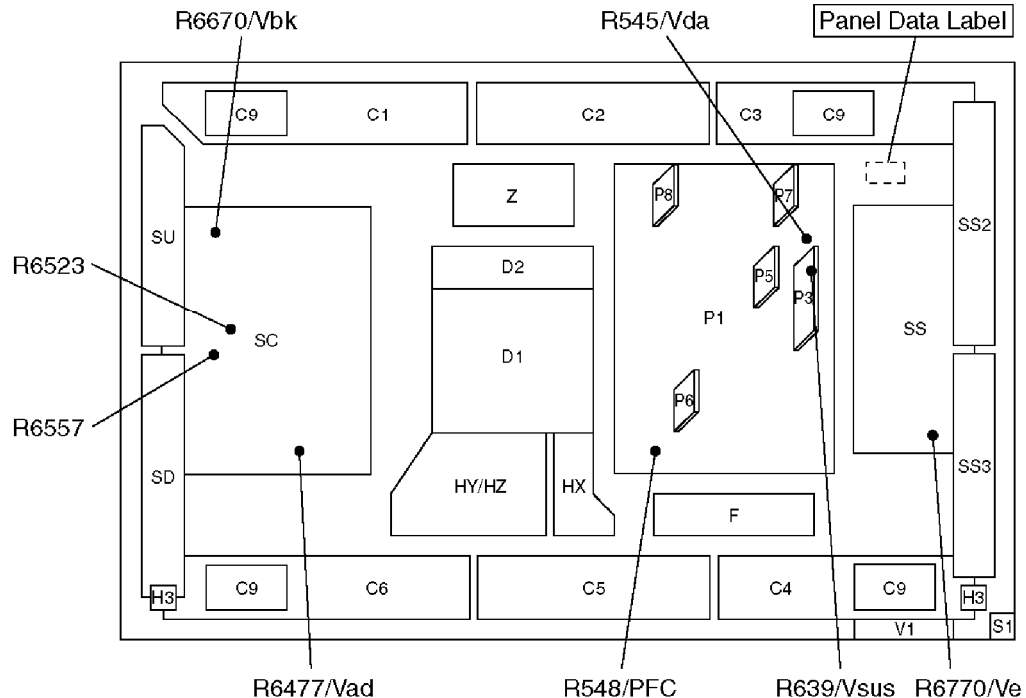
1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

8.4.2. Quick adjustment after P.C.B. exchange

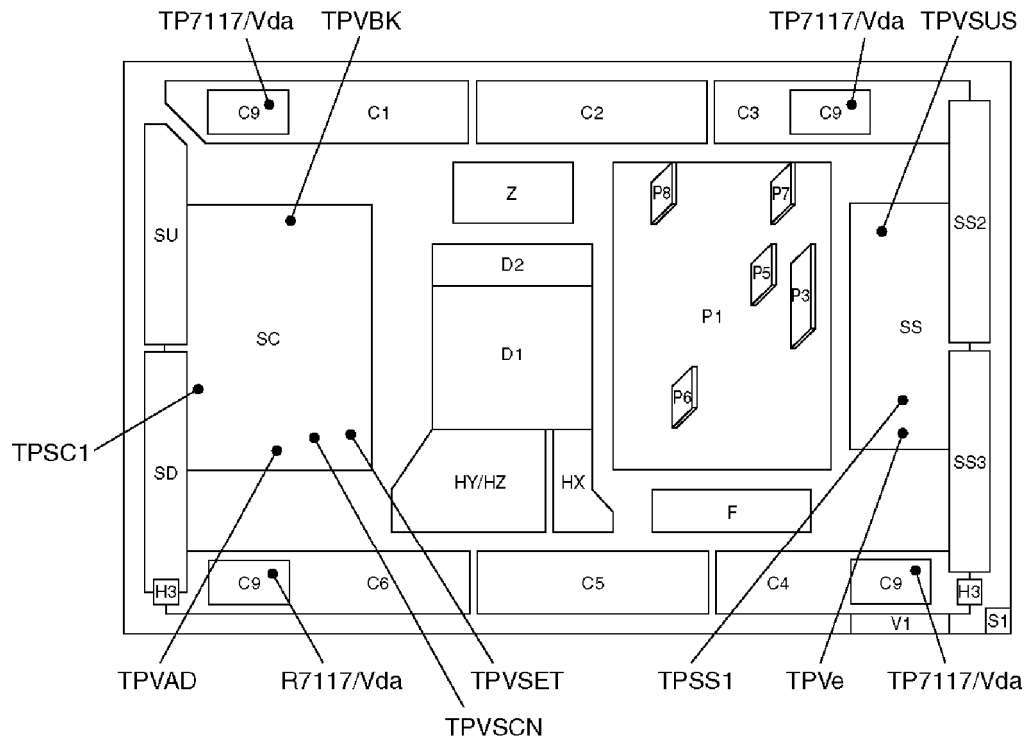
P.C.B.	Item	Volume	Test point	Level
P board	PFC	R548 (P3)	P24 connector pin 1	400V \pm 1V
	Vsus	R639 (P3)	TPVsus (SS)	Vsus \pm 1V*
	Vda	R545 (P1)	TP117 (C9)	74V \pm 1V
SC board	Vad	R6477 (SC)	TPVAD (SC)	Vad \pm 1V*
	Vbk	R6670 (SC)	TPVBK (SC)	Vbk \pm 5V*
SS board	Ve	R6770 (SS)	TPVE (SS)	Ve \pm 1V*
D1, D2 board	White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625I signals.			

*See the Panel label.

8.5. Adjustment Volume Location



8.6. Test Point Location



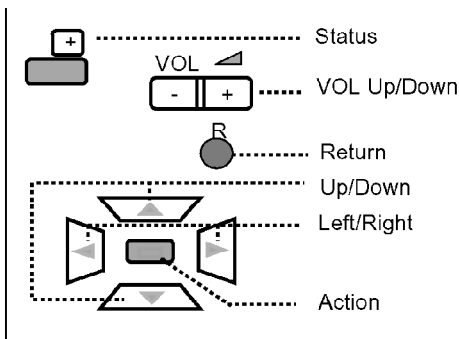
9. Service mode

9.1. CAT (computer Aided Test) mode

CAT mode menu

CAT Panel sys8.2		Mode	Function	Access button
IIC Mode	←.....	IIC	Service Alignment	Action
CD Mode	←.....	CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD Mode	←.....	SD(Status Display)	MTBF parameter	Action
MS Mode	←.....	MS Mode	Not use	----
ID Mode	←.....	ID	Not use	----

Remote control



How to access the CAT mode.

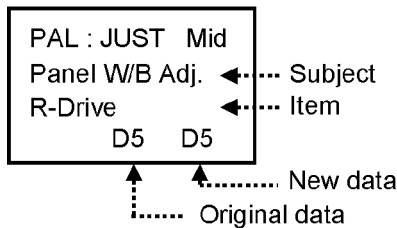
Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the CAT mode , access the ID mode and switch off the main power.

9.1.1. IIC mode

Select the IIC mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD



How to use the IIC mode.

1. Select the alignment **Subject** by Up/Down **buttons** on the remote control.
2. Select the alignment **Item** by Left/Right **buttons** on the remote control.
3. Adjust **optimum setting** by Volume Up/Down **buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

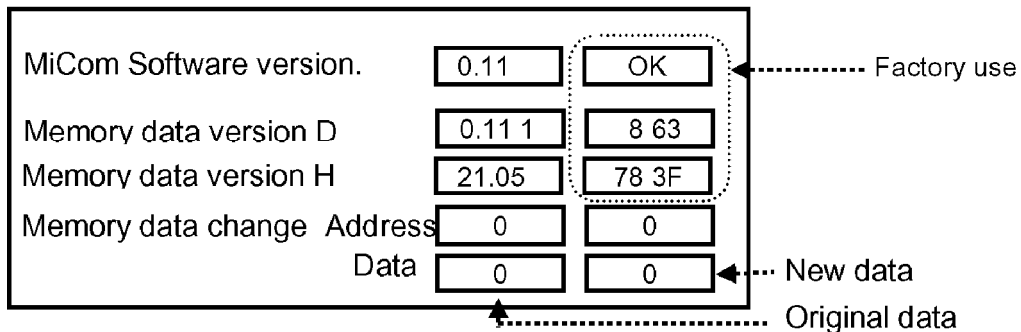
Subject and item are mentioned on page 14.

To exit the IIC mode, press the R button on the remote control.

9.1.2. CD mode

Select the CD mode by Up/Down button on the remote control at the front page of CAT mode then press the Mute button on the remote control more than 5 sec.

OSD

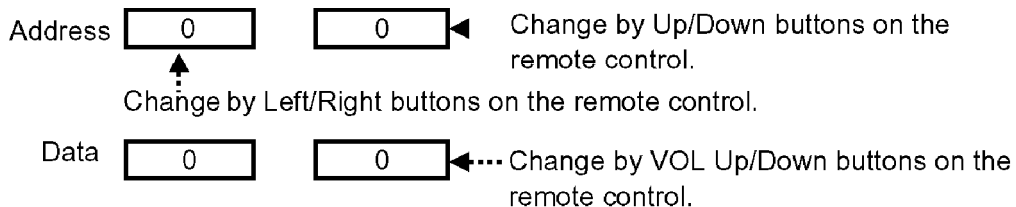


Micom software version (IC9354), this version can be upgrade by

1. replace of new version IC

2. Loading the new version software from loader tool, TZSC07036.

Memory data change



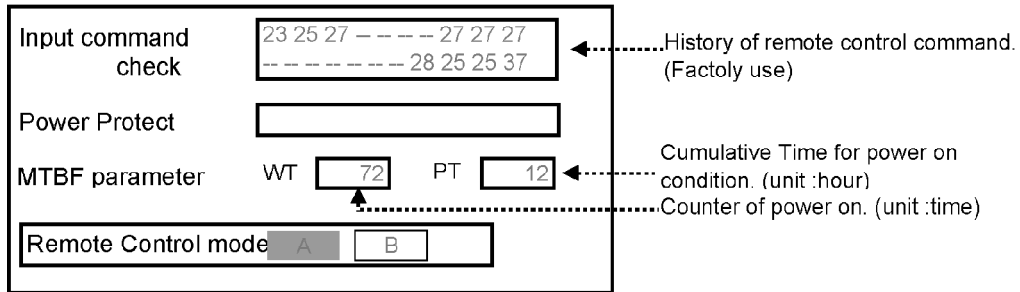
The data is memorized when switch off the main power.

To exit the CD mode, press the R button on the remote control.

9.1.3. SD mode

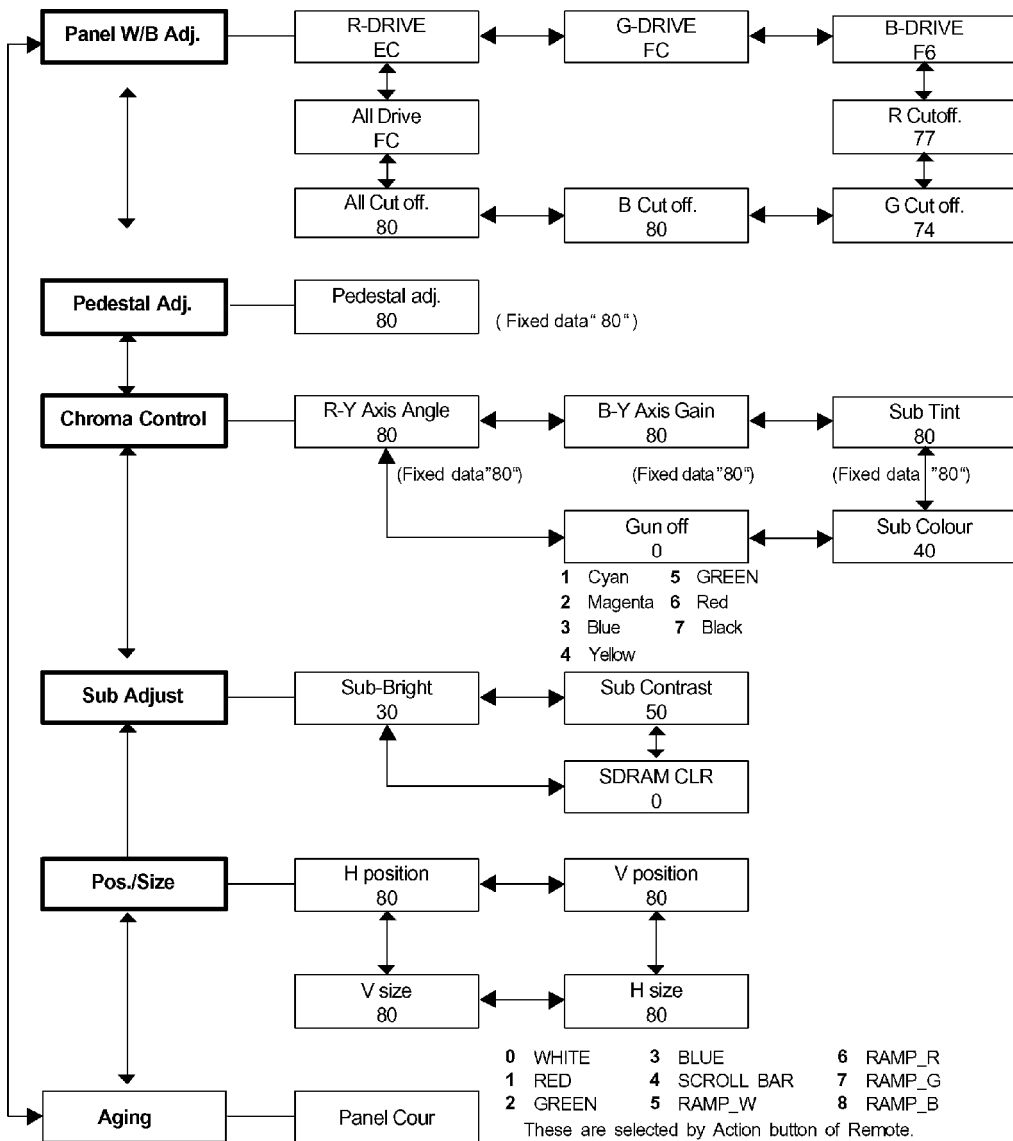
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD



To exit the SD mode, press the R button on the remote control.

9.2. IIC mode structure (following items value is sample data.)



10. Alignment

10.1. Pedestal setting

10.2. NTSC panel white balance

Note:

OSD is the difference between US model and Except US model. / Picture:Normal (Except US)/ Standard (US model) / White balance (Except US)/Color Temp (US model)

10.3. PAL/SECAM panel white balance

10.4. PC/RGB panel white balance

10.5. HD/ 525i /525p panel white balance

10.6. 625i panel balance

10.7. Sub brightness setting

11. Trouble shooting guide

11.1. Self Check

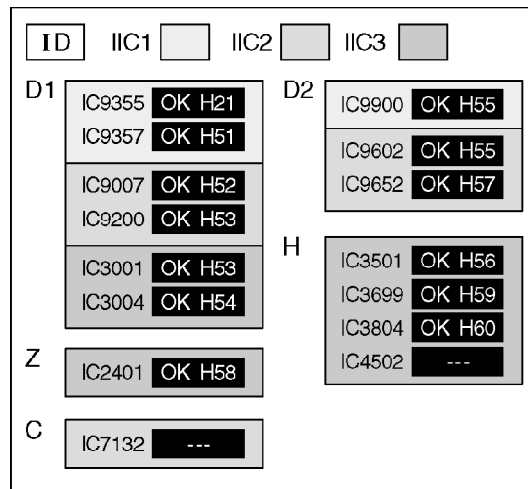
11.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode, press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect
Or not located then " - - " will appear in place of " OK "

Note:

In case of disconnected of H/HY/HZ "IC3699 - -" is displayed.



11.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinks of the Power LED on the front panel of the unit.

Blinking times	Blink timing	Contents & Check point
Twice		SC,SS,C board
Three		D board
Four		P board (Check P7,P8 protection circuits)
Six		Fan circuit / Fan stop Check Pin3 of P10 to P13 connectors.

3. Remarks

Above Fan function is operated during the fans are installed.

11.2. No Power

[First check point]

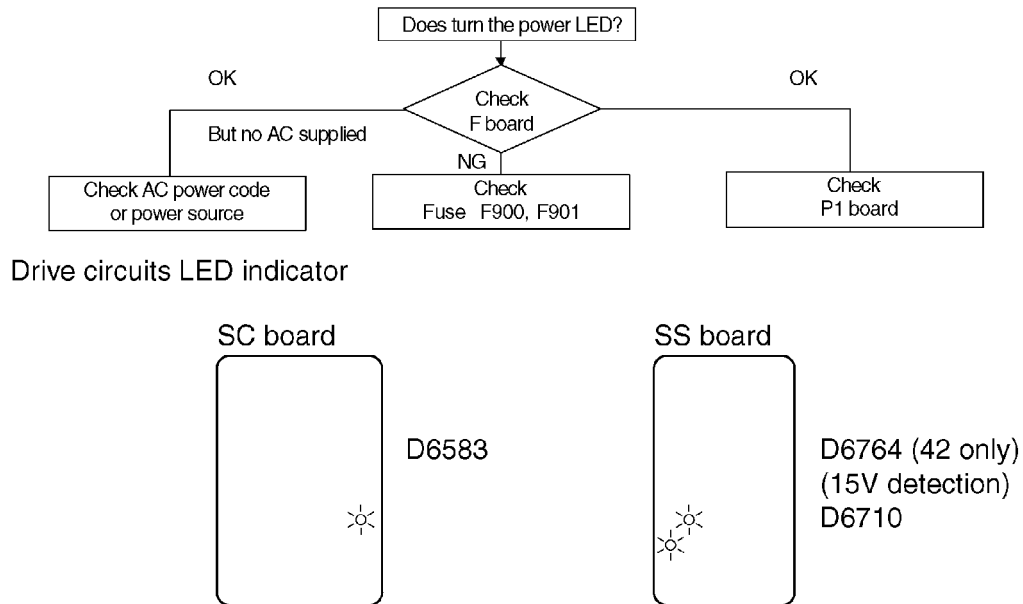
There are following 3 states of No Power indication by power LED.

1. No lit

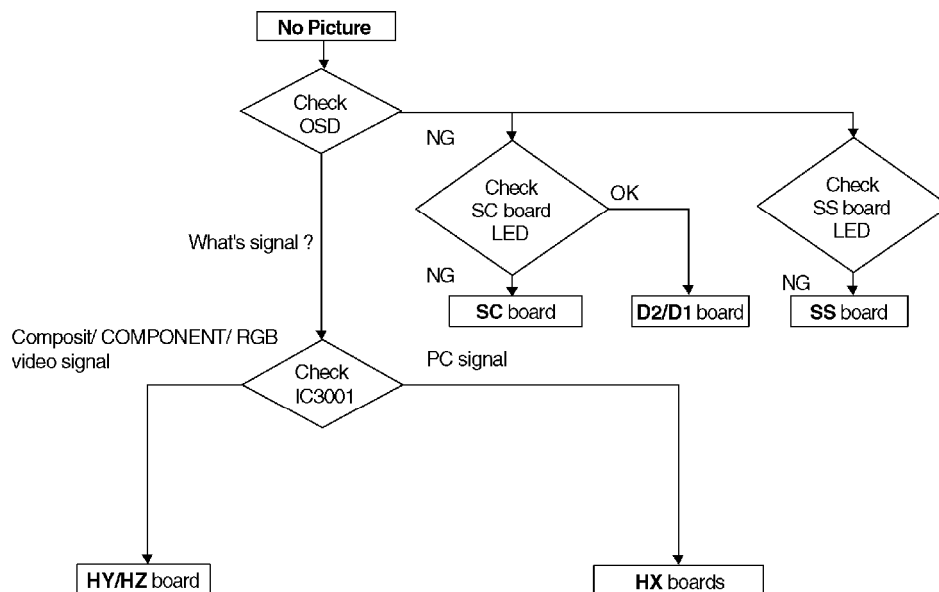
2. Green is lit then turns red blinking a few seconds later.

3. Only red is lit.

1. No lit



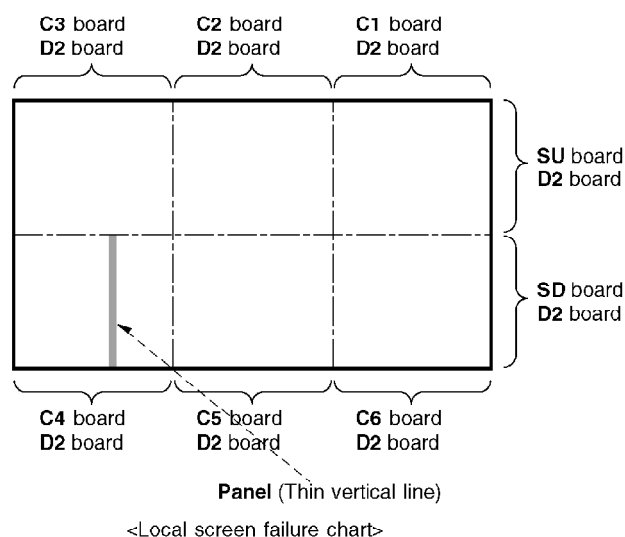
11.3. No Picture



11.4. Local screen failure

Plasma display may have local area failure on the screen. **Fig - 1** is the possible defect P.C.B. for each local area.

Fig - 1



12. Option Setting

Hidden Option Menu for GPH5D2 series

GPH5D2 chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

Option menus	default setting	Contents
Wobbling	Off	Wobbling operation On/Off. The outline of burnt image will be blurred by internal image sift.
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial Input	Off	Sets the initial input mode when the power is turned on. Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Do not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/or volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.

Option menus	default setting	Contents
Remocon User Level	Off	Remote key invalidation. Off : Valid key is all key of remote. User1 : Valid key are only Stand-by (ON/OFF), Input Status, Surround, Sound mute On/Off, and volume adjustment. User2: Valid key is only Stand-by (ON/OFF). User3 : All keys are null and void

Note :

How to set Remocon User Level and Remote ID off

- 1. Access service mode (CAT-mode) and press SET UP key on remote.**
- 2. Access Hidden option menu.**
- 3. Change Remocon User Level and/ or Remote ID set to Off.**

13. Conductor Views

13.1. F-Board

13.2. P1-Board

13.3. P3, P5, P6, P7 and P8-Board

13.4. HX-Board

13.5. HY-Board

13.6. HZ-Board

13.7. D1-Board

13.8. D2-Board

13.9. C1-Board

13.10. C2-Board

13.11. C3-Board

13.12. C4-Board

13.13. C5-Board

13.14. C6-Board

13.15. C9-Board

13.16. SC-Board

13.17. SU-Board

13.18. SD-Board

13.19. SS-Board

13.20. SS2 and SS3-Board

13.21. Z-Board

13.22. H3, S1 and V1-Board

14. Block and Schematic Diagrams

14.1. Schematic Diagram Notes

14.2. Main Block Diagram

14.3. Power Block Diagram

14.4. P1-Board Schematic Diagram

14.5. F, P3, P5, P6, P7 and P8-Board Schematic Diagram

14.6. HX-Board Block Diagram

14.7. HX-Board Schematic Diagram

14.8. HY and HZ-Board Block Diagram

14.9. HY-Board (1 of 2) Schematic Diagram

14.10. HY-Board (2 of 2) Schematic Diagram

14.11. HZ-Board (1 of 2) Schematic Diagram

14.12. HZ-Board (2 of 2) Schematic Diagram

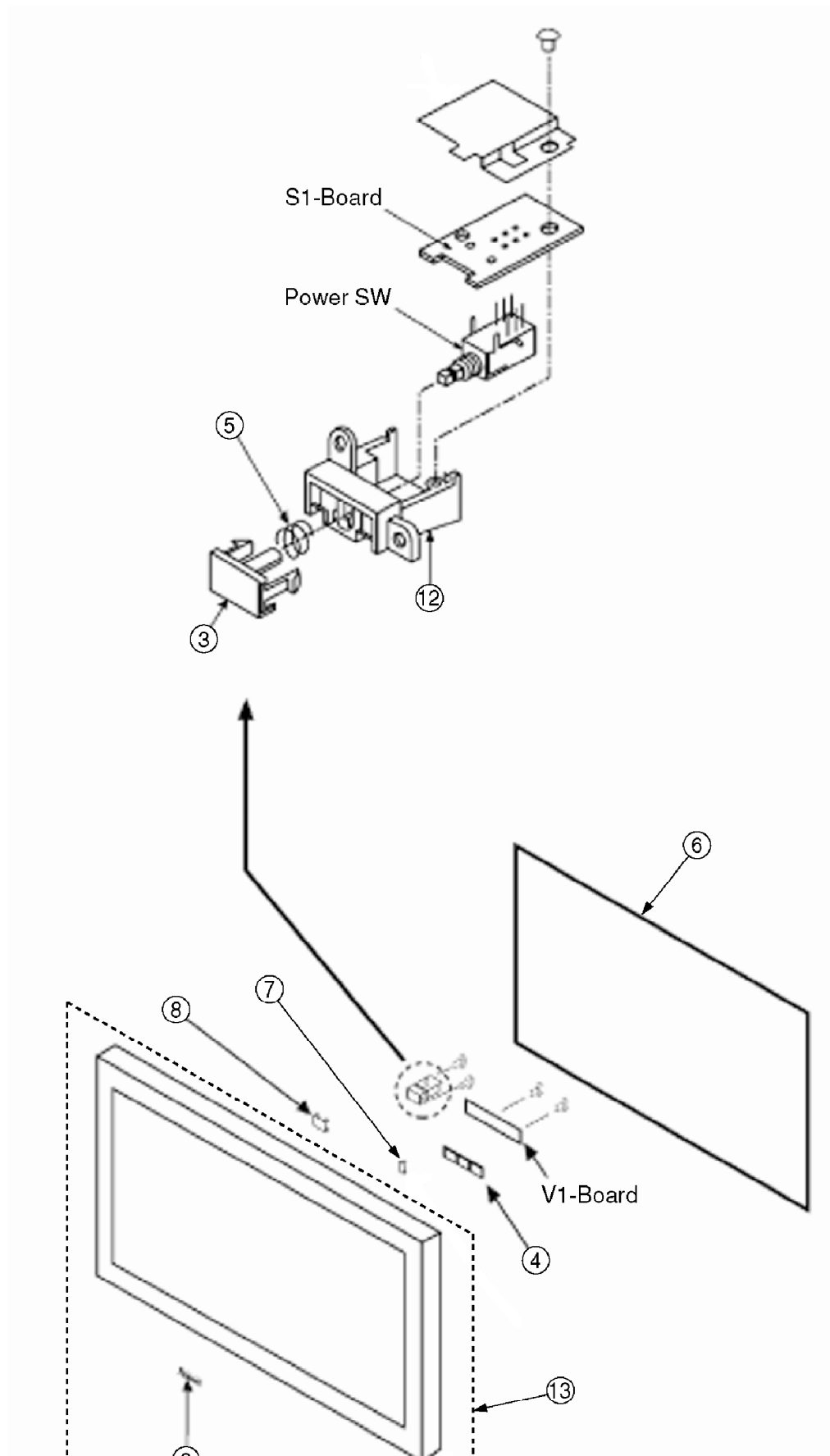
14.13. D1-Board Block Diagram

- 14.14. D1-Board (1 of 6) Schematic Diagram**
- 14.15. D1-Board (2 of 6) Schematic Diagram**
- 14.16. D1-Board (3 of 6) Schematic Diagram**
- 14.17. D1-Board (4 of 6) Schematic Diagram**
- 14.18. D1-Board (5 of 6) Schematic Diagram**
- 14.19. D1-Board (6 of 6) Schematic Diagram**
- 14.20. D2-Board Block Diagram**
- 14.21. D2-Board (1 of 8) Schematic Diagram**
- 14.22. D2-Board (2 of 8) Schematic Diagram**
- 14.23. D2-Board (3 of 8) Schematic Diagram**
- 14.24. D2-Board (4 of 8) Schematic Diagram**
- 14.25. D2-Board (5 of 8) Schematic Diagram**
- 14.26. D2-Board (6 of 8) Schematic Diagram**
- 14.27. D2-Board (7 of 8) Schematic Diagram**
- 14.28. D2-Board (8 of 8) Schematic Diagram**
- 14.29. C1, C2, C3, C4, C5, C6 and C9-Board (1 of 2) Block Diagram**
- 14.30. C1, C2, C3, C4, C5, C6 and C9-Board (2 of 2) Block Diagram**
- 14.31. C1-Board Schematic Diagram**
- 14.32. C2-Board Schematic Diagram**
- 14.33. C3-Board Schematic Diagram**
- 14.34. C4-Board Schematic Diagram**
- 14.35. C5-Board Schematic Diagram**
- 14.36. C6-Board Schematic Diagram**
- 14.37. C9-Board Schematic Diagram**
- 14.38. SC-Board Block Diagram**

- 14.39. SC-Board (1 of 2) Schematic Diagram**
- 14.40. SC-Board (2 of 2) Schematic Diagram**
- 14.41. SU-Board Block Diagram**
- 14.42. SU-Board (1 of 2) Schematic Diagram**
- 14.43. SU-Board (2 of 2) Schematic Diagram**
- 14.44. SD-Board Block Diagram**
- 14.45. SD-Board (1 of 2) Schematic Diagram**
- 14.46. SD-Board (2 of 2) Schematic Diagram**
- 14.47. SS-Board Block Diagram**
- 14.48. SS, SS2, SS3 and S1-Board Schematic Diagram**
- 14.49. Z-Board Block Diagram**
- 14.50. H3 and Z-Board Schematic Diagram**

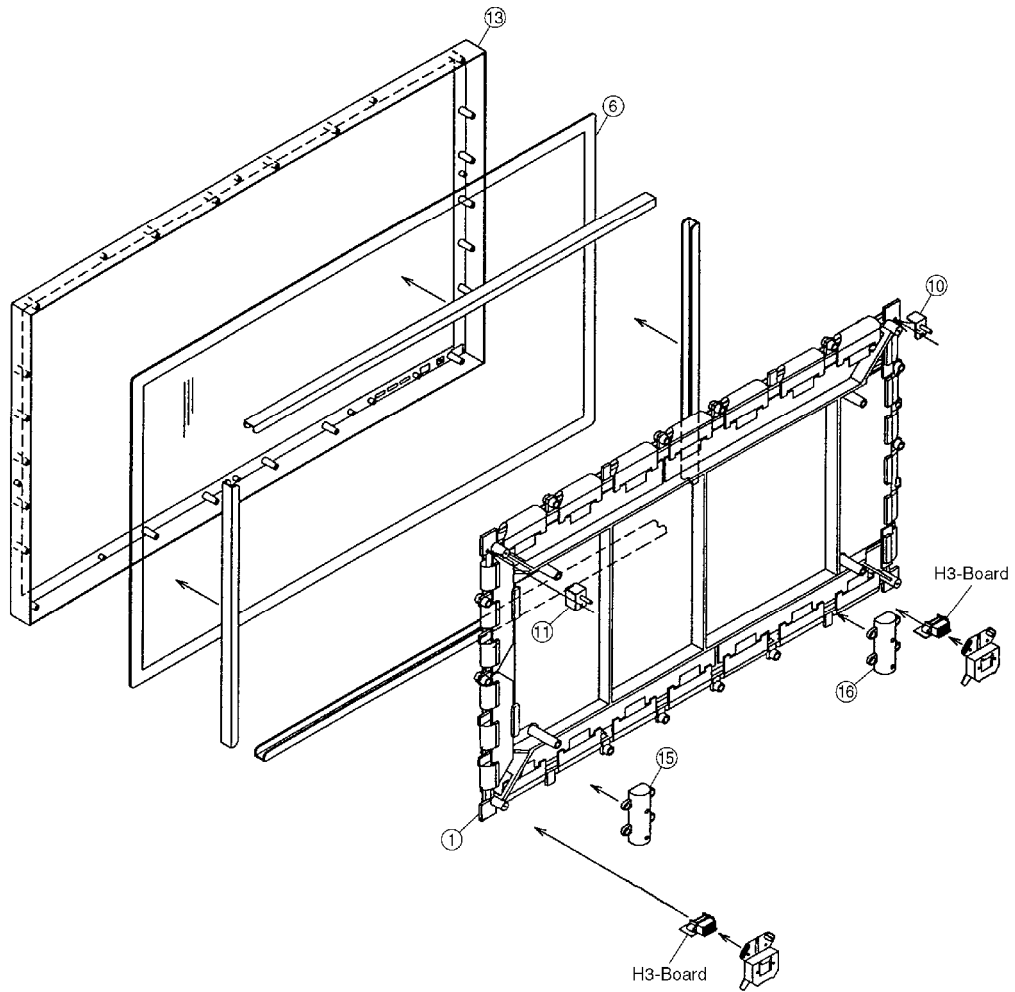
15. Parts Location

15.1. Parts Location1

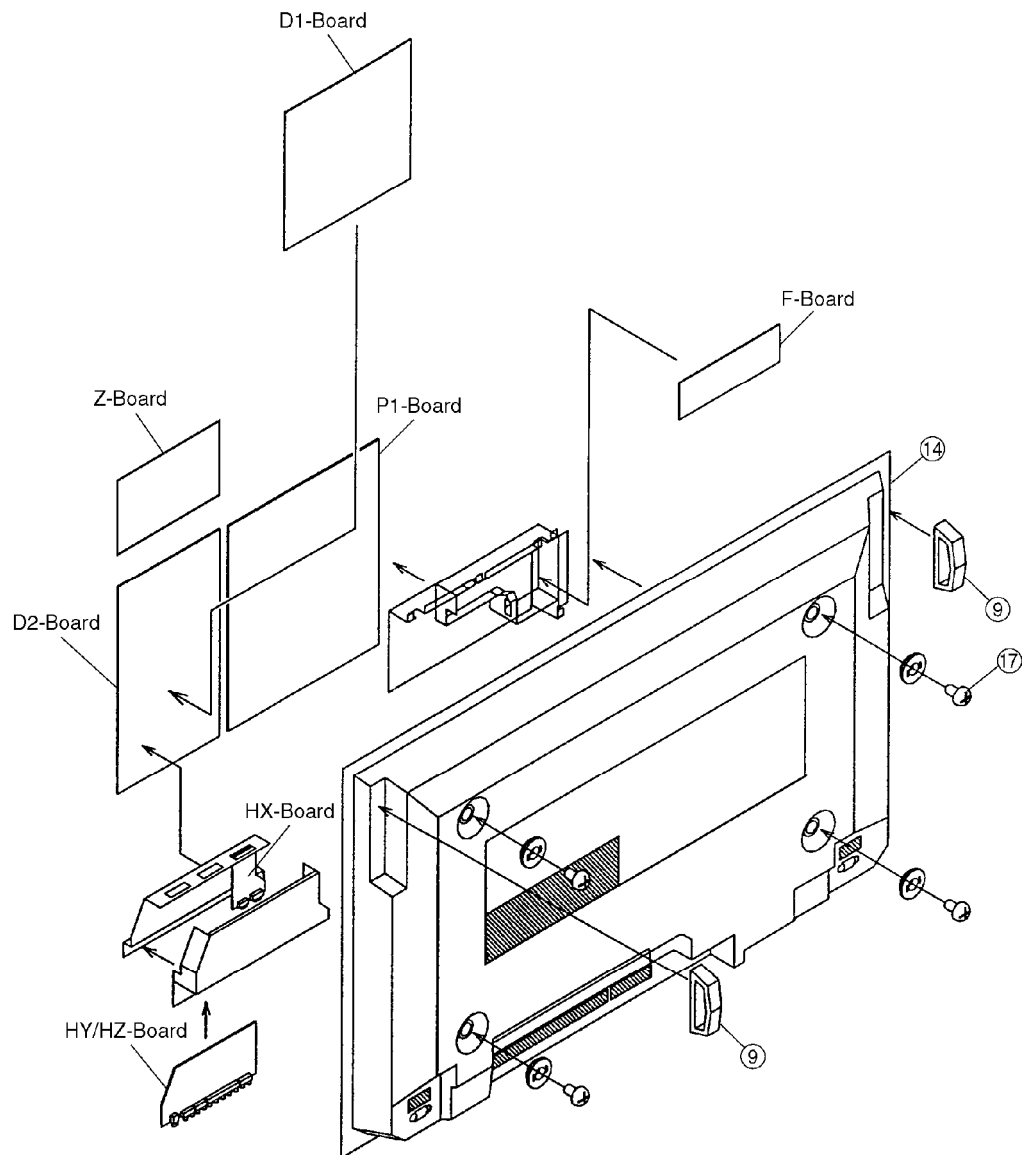




15.2. Parts Location2





























15.3. Parts Location3



16. Mechanical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	EUR646525	REMOTE CONTROL	1	
	FBL06A12LS	FAN	4	
	J0KD00000049	FLAT CORE	4	
	J0KF00000018	FILTER	1	
	J0KF00000018	FILTER	1	
	J0KG00000054	NOISE FILTER	2	
	K2CG3DH00025	AC CORD	1	UY/UZ VERSION ⚠
	K2CK3DH00013	AC CORD	1	AY/AZ VERSION ⚠
	K2CN3DH00004	AC CORD	1	EX/FY/FZ/RZ VERSION ⚠
	K2CT3DH00013	AC CORD	1	BX/HY/HZ VERSION ⚠
	K5Y802B00001	FUSE	2	⚠
1	MD50H05A1J	PLASMA DISPLAY PANEL	1	⚠
2	TBMA008	PANASONIC BADGE	1	PHD5 TH-50PHW5UZ
1	TBMA118	PANASONIC BADGE	1	PHW5
3	TBXA28202A	POWER BUTTON	1	PHD5
3	TBXA28207	POWER BUTTON	1	TH-50PHW5AZ/BX/EX/FZ/HZ/ RY
3	TBXA28208	POWER BUTTON	1	TH-50PHW5UZ
4	TBXA28502A	HINDGE BUTTON	1	PHD5
4	TBXA28507	HINDGE BUTTON	1	TH-50PHW5AZ/BX/EX/FZ/HZ/ RY
4	TBXA28508	HINDGE BUTTON	1	TH-50PHW5UZ
5	TESD031	SPRING	1	
	THEA068N	SCREW	4	
	THEL023Z	SCREW	13	
	THEL027N	SCREW	19	
	THTD004	SCREW	3	
	THTF003Y	SCREW	38	
6	TKGA5085	FRONT GLASS	1	EXCET TH-50PHW5UZ
6	TKGA5090	FRONT GLASS	1	TH-50PHW5UZ
7	TKKC5105	LED PANEL	1	
8	TKPA43802	REMOCON RECEIVE PANEL	1	TH-50PHW5UZ
8	TKPA60301	REMOCON RECEIVE PANEL	1	PHD5
8	TKPA60302	REMOCON RECEIVE PANEL	1	TH-50PHW5AZ/BX/EX/FZ/HZ/ RY
9	TKRA20501	HANDLE	2	
	TMKG252	CUSHION	2	
	TMKG253	CUSHION	2	
	TMKX236	INSULATOR	1	
	TMKX258	INSULATOR	1	
	TMM14467	SPACER	2	
	TMM15414-2	CLAMPER	1	
	TMM25401	CLAMPER	3	
	TMM7464-2	CLAMPER	2	
	TMM7468-1	CLAMPER	3	
	TMM81488	CLAMPER	2	
10	TMMD007-1	BRACKET(RIGHT)	1	TMMD007
11	TMMD008-1	BRACKET(LEFT)	1	TMMD008
	TMME047	CLAMPER	2	
	TMME061	CLAMPER	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TMME075	EADG SADOLE	2	
	TMME152	CLAMPER	2	
	TMME187	CLAMPER	2	
	TMME190	CLAMPER	1	
	TMMX043	SPACER (UPPER)	2	
	TMMX044	SPACER (BOTTOM)	2	
12	TMWC006-1	POWER BUTTOM BRACKET	1	
	TMXX021-1	CORE HOLDER	4	
	TPCA97149	BOTTOM CARTON	1	TH-50PHD5UY 
	TPCA97150	BOTTOM CARTON	1	TH-50PHD5EX 
	TPCA97151	BOTTOM CARTON	1	TH-50PHD5RY 
	TPCA97152	BOTTOM CARTON	1	TH-50PHD5BX  ;
	TPCA97153	BOTTOM CARTON	1	TH-50PHD5HY 
	TPCA97154	BOTTOM CARTON	1	TH-50PHD5AY 
	TPCA97155	BOTTOM CARTON	1	TH-50PHW5EX 
	TPCA97156	BOTTOM CARTON	1	TH-50PHW5RZ 
	TPCA97157	BOTTOM CARTON	1	TH-50PHW5BX 
	TPCA97158	BOTTOM CARTON	1	TH-50PHW5HZ 
	TPCA97159	BOTTOM CARTON	1	TH-50PHW5AZ 
	TPCA97160	BOTTOM CARTON	1	TH-50PHW5UZ 
	TPCA97161	BOTTOM CARTON	1	TH-50PHD5FY 
	TPCA97162	BOTTOM CARTON	1	TH-50PHW5FZ 
	TPCA97201A	CARTON BOX(BOTTOM)	1	
	TPD169487	JOINT	4	
	TPDA0510-1	CUSHION(UPPER RIGHT)	1	
	TPDA0511-1	CUSHION(UPPER LEFT)	1	
	TPDA0512	CUSHION(UPPER CENTER)	1	
	TPDA0513	CUSHION(BOTTOM RIGHT)	1	
	TPDA0514	CUSHION(BOTTOM LEFT)	1	
	TPDA0515-2	CUSHION(BOTTOM CENTER)	1	
	TPDA0645	PAD	2	
	TPDF0536	PAD(TOP)	1	
	TPDF0737	PAPER BOX	1	
	TPEH170	PROTECT COVER	1	
	TQBC0453-1	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHW5UZ 
	TQBC0454-1	INSTRUCTION BOOK(FRENCH)	1	TH-50PHW5UZ 
	TQBC0455-1	INSTRUCTION BOOK(SPANISH)	1	TH-50PHW5UZ 
	TQBC0456-1	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD5UY 
	TQBC0457-1	INSTRUCTION BOOK(FRENCH)	1	TH-50PHD5UY 
	TQBC0458-1	INSTRUCTION BOOK(SPANISH)	1	TH-50PHD5UY 
	TQBC0459-2	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHW5EX 
	TQBC0460-2	INSTRUCTION BOOK(GERMANY)	1	TH-50PHW5EX 
	TQBC0461-2	INSTRUCTION BOOK(FRENCH)	1	TH-50PHW5EX 
	TQBC0462-2	INSTRUCTION BOOK(ITALIAN)	1	TH-50PHW5EX 
	TQBC0463-2	INSTRUCTION BOOK(SPANISH)	1	TH-50PHW5EX 

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
	TQBC0464-2	INSTRUCTION BOOK(DUTCH)	1	TH-50PHW5EX
	TQBC0465-2	INSTRUCTION BOOK(DANISH)	1	TH-50PHW5EX
	TQBC0466-2	INSTRUCTION BOOK(SWEDISH)	1	TH-50PHW5EX
	TQBC0467-2	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD5EX
	TQBC0468-2	INSTRUCTION BOOK(GERMANY)	1	TH-50PHD5EX
	TQBC0469-2	INSTRUCTION BOOK(FRENCH)	1	TH-50PHD5EX
	TQBC0470-2	INSTRUCTION BOOK(ITALIAN)	1	TH-50PHD5EX
	TQBC0471-2	INSTRUCTION BOOK(SPANISH)	1	TH-50PHD5EX
	TQBC0472-2	INSTRUCTION BOOK(DUTCH)	1	TH-50PHD5EX
	TQBC0473-2	INSTRUCTION BOOK(DANISH)	1	TH-50PHD5EX
	TQBC0474-2	INSTRUCTION BOOK(SWEDISH)	1	TH-50PHD5EX
	TQBC0475-1	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHW5AZ/HZ/RZ
	TQBC0476-1	INSTRUCTION BOOK(GERMANY)	1	TH-50PHW5RZ
	TQBC0477-1	INSTRUCTION BOOK(FRENCH)	1	TH-50PHW5RZ
	TQBC0478-1	INSTRUCTION BOOK(ITALIAN)	1	TH-50PHW5RZ
	TQBC0479-1	INSTRUCTION BOOK(SPANISH)	1	TH-50PHW5RZ
	TQBC0480-1	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD5AY/HY/RY
	TQBC0481-1	INSTRUCTION BOOK(GERMANY)	1	TH-50PHD5RY
	TQBC0482-1	INSTRUCTION BOOK(FRENCH)	1	TH-50PHD5RY
	TQBC0483-1	INSTRUCTION BOOK(ITALIAN)	1	TH-50PHD5RY
	TQBC0484-1	INSTRUCTION BOOK(SPANISH)	1	TH-50PHD5RY
	TQBC0485-2	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHW5BX
	TQBC0486-2	INSTRUCTION BOOK(ENGLISH)	1	TH-50PHD5BX
	TQBC0487	INSTRUCTION BOOK(KOREA)	1	TH-50PHW5FZ
	TQBC0488	INSTRUCTION BOOK(KOREA)	1	TH-50PHD5FY
	TQZW235	SHEET	1	
	TSXL139	CABLE	1	
	TSXL146	CABLE	1	
	TSXL212	CABLE (D2-C)	4	
	TSXL222	CABLE (C-C)	4	
	TSXL223	CABLE (C1-C2/C2-C)	4	
13	TTEA0087	ESCUTCHEON	1	PHD5
13	TTEA0101	ESCUTCHEON	1	TH-50PHW5AZ/BX/EX/FZ/HZ/ RY
13	TTEA0102	ESCUTCHEON	1	TH-50PHW5UZ
14	TTUA0572	REAR COVER	1	TH-50PHD5BX/EX
14	TTUA0573	REAR COVER	1	TH-50PHD5AY/HY/RY
14	TTUA0574	REAR COVER	1	TH-50PHW5BX/EX
14	TTUA0575	REAR COVER	1	TH-50PHW5AZ/HZ/RZ
14	TTUA0576	REAR COVER	1	TH-50PHW5UZ
14	TTUA0595	REAR COVER	1	TH-50PHD5FY
14	TTUA0596	REAR COVER	1	TH-50PHW5FZ
	TXAJS010MHS	AC INLET	1	K2AH3H000021

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
15	TXFMZ010MHS	STAND BRACKET(LEFT)	1	
16	TXFMZ020MHS	STAND BRACKET(RIGHT)	1	
	TXJSPL0MHS	SP LEAD(LEFT)	1	
	TXJSPR0MHS	SP LEAD(RIGHT)	1	
	XTB4+10A	SCREW	23	
	XTBT964	SCREW	2	
	XTS3+10J	SCREW	8	
	XTV3+6J	SCREW	2	
	XTW3+8T	SCREW	3	
	XYC3+FF8	SCREW	2	
	XYC4+FJ35FZ	SCREW	19	
	XYN3+F10	SCREW	19	
	XYN3+F10FZ	SCREW	2	
	XYN3+F8	SCREW	115	
	XYN4+E8	SCREW	1	
	XYN5+C20	SCREW	8	
17	XYN8+F20FZ	SCREW	4	
	XZBT6506	POLY BAG	1	

17. Replacement Parts List

17.1. Replacement Parts List Notes

Important Safety Notice

*Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.*

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item.
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 \underline{C} 100KOHM, \underline{J} 1/4W
Type Allowance

2. Capacitor







Example:

ECKF1H103ZF \underline{C} 0.01UF, \underline{Z} 50V
Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide	J : $\pm 5\%$
Metal Film	K : $\pm 10\%$
S : Solid	M : $\pm 20\%$
W : Wire Wound	


Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polypropylene	G : $\pm 3\text{pF}$
T : Tantalum	J : $\pm 5\text{pF}$
	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement Parts List

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C10	K1MN80B00002	CONNECTOR	1	
C12	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C13	K1MN20B00043	CONNECTOR	1	
C20,21	K1MN80B00002	CONNECTOR	2	
C22,23	K1MN20B00043	CONNECTOR	2	
C24,25	K1MN80B00002	CONNECTOR	2	
C31	K1MN80B00002	CONNECTOR	1	
C32	K1KA12A00227	12 PIN PH (2.0MM)	1	
C33	K1MN20B00043	CONNECTOR	1	
C34	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C35	K1KA04A00199	CONNECTOR	1	
C41	K1MN80B00002	CONNECTOR	1	
C42	K1KA04A00199	CONNECTOR	1	
C43	K1MN20B00043	CONNECTOR	1	
C44	K1KA08A00232	8P CONNECTOR	1	
C45	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C50,51	K1MN80B00002	CONNECTOR	2	
C52,53	K1MN20B00043	CONNECTOR	2	
C54,55	K1MN80B00002	CONNECTOR	2	
C60	K1MN80B00002	CONNECTOR	1	
C63	K1MN20B00043	CONNECTOR	1	
C64	TJS6A9760	25P CONNECTOR	1	K1KA25A00013
C081	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C81	TJS6A9770	25P CONNECTOR	1	K1KB25B00005
C400,01	ECKCNA222MEB	C 2200PF,	2	
C402	ECQU2A105MGA	P 1UF, 250V	1	
C403	ECQB1H473JF	P 0.047UF, J, 50V	1	
C404	ECKCNA222MEB	C 2200PF,	1	
C405	ECKF1H681KB	C 680PF, K, 50V	1	F1B1H681A005
C406	ECWF4105JB	P 1UF, J,400V	1	
C407,08	ECKD3A101KBP	C 100PF, K, 1KV	2	
C409,10	ECKD3A102KBP	C 1000PF, K, 1KV	2	
C411,12	EETHC2W331L	E 330UF, 450V	2	
C413	ECQU2A683MN	P 0.068UF, M,250V	1	
C415	EEUFC1E471	E 470UF, 25V	1	
C416	ECA2WHG220	E 22UF, 450V	1	
C417	EETHC2W331L	E 330UF, 450V	1	
C419	ECKD3D392KBP	C 3900PF, K, 2KV	1	
C421	ECQE10104KF	P 0.1UF, K, 1KV	1	
C422	ECA1HHG221	E 220UF, 50V	1	
C423	ECA1HHG220	E 22UF, 50V	1	
C424	ECQV1H104JM	P 0.1UF, J, 50V	1	
C425	ECA1EHG470	E 47UF, 25V	1	
C426	ECKD2H821KB2	C 820PF, K,500V	1	ECKR2H821KB5
C427	ECKD3A101KBP	C 100PF, K, 1KV	1	
C428	ECQV1H104JM	P 0.1UF, J, 50V	1	
C429	ECA1HHG221	E 220UF, 50V	1	
C431	ECKF1H681KB	C 680PF, K, 50V	1	F1B1H681A005
C432	ECQB1H473JF	P 0.047UF, J, 50V	1	
C433,34	ECKD3D102KBP	C 1000PF, K, 2KV	2	
C435	ECKD3A102KBP	C 1000PF, K, 1KV	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C437,38	ECKD2H561KB2	C 560PF, K,500V	2	
C439	ECA1EHG470	E 47UF, 25V	1	
C440	EEUFC1C471	E 470UF, 16V	1	
C441,42	ECKD3A101KBP	C 100PF, K, 1KV	2	
C443	ECA1EHG102	E 1000UF, 25V	1	
C444,45	ECKD3A101KBP	C 100PF, K, 1KV	2	
C446-48	ECQB1H103JF	P 0.01UF, J, 50V	3	
C449	EEUFC1E332	E 3300UF, 25V	1	
C451	ECQB1H332JF	P 3300PF, J, 50V	1	
C452	EC0S1KA272CB	E 2700UF,	1	
C453,54	ECA1EHG222	E 2200UF, 25V	2	
C455	ECQB1H103JF	P 0.01UF, J, 50V	1	
C458	ECKD2H103ZU	C 0.01UF, Z,500V	1	
C462	EEUFC1C472	E 4700UF, 16V	1	
C463	EEUEB1E470	E 47UF, 25V	1	
C464-66	ECKD3A102KBP	C 1000PF, K, 1KV	3	
C467	ECA1CHG471	E 470UF, 16V	1	
C468	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C469	ECA1CHG471	E 470UF, 16V	1	
C470	ECQV1H105JM	P 0.1UF, J, 50V	1	
C471	EEUEB1E470	E 47UF, 25V	1	EXCEPT UY/UZ VERSION
C472	ECA1HHG220	E 22UF, 50V	1	
C475	ECKDHT122KB	C 1200PF, 500V	1	
C478-80	EETHC2D152K	E 1500UF, 160V	3	F2B2D1520005
C481	ECA1HHG220	E 22UF, 50V	1	
C485	EEUFC1A682	E 6800UF, 10V	1	
C487	ECQV1H105JM	P 1UF, J, 50V	1	
C488	ECQB1H563JF	P 0.056UF, J, 50V	1	ECQB1H563JF3
C491	EC0S1KA272CB	E 2700UF,	1	
C492	ECKDHT332KB	C 3300PF, K,500V	1	
C494	ECQB1H563JF	P 0.056UF, J, 50V	1	ECQB1H563JF3
C495,96	ECKF1H471KB	C 470PF, K, 50V	2	
C497	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C498	ECQB1H272JF	P 2700PF, J, 50V	1	
C499	ECQB1H471JF	P 470PF, J, 50V	1	
C500	ECA1EHG470	E 47UF, 25V	1	
C502	ECQV1H105JM	P 1UF, J, 50V	1	
C503	ECQB1H103JF	P 0.01UF, J, 50V	1	
C504	EEUEB1E470	E 47UF, 25V	1	
C505	EEUEB1E101	E 100UF, 25V	1	
C509	EEUFC1E332	E 3300UF, 25V	1	
C511,12	ECQE6105JF	P 1UF, J,630V	2	
C515	EEUFC1H330	E 33UF, 50V	1	
C516	ECQV1H473JM	P 0.047UF, J, 50V	1	
C517	EEUFC1H330	E 33UF, 50V	1	
C518	ECQV1H473JM	P 0.047UF, J, 50V	1	
C519,20	ECKF1H223ZF	C 0.022UF, Z, 50V	2	
C600	ECA1HHG220	E 22UF, 50V	1	
C601	ECQV1H105JM	P 1UF, J, 50V	1	
C602	ECQB1H222JF	P 2200PF, J, 50V	1	
C603,04	ECQV1H105JM	P 1UF, J, 50V	2	
C606	ECQV1H105JM	P 1UF, J, 50V	1	
C607	ECA1HHG4R7	E 4.7UF, 50V	1	
C608	ECJ2XC1H102J	C 1000PF, J, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C609	ECQB1H103JF	P 0.01UF, J, 50V	1	
C610	ECQB1H223JF	P 0.022UF, J, 50V	1	
C611	ECQB1H333JF	P 0.033UF, J, 50V	1	ECQB1H333JF3
C612	ECCF1H220JC	C 22PF, J, 50V	1	
C613	ECQV1H105JM	P 1UF, J, 50V	1	
C614-17	ECKF1H471KB	C 470PF, K, 50V	4	
C618	ECQV1H224JM	P 0.22UF, J, 50V	1	
C619	ECQB1H473JF	P 0.047UF, J, 50V	1	
C635	ECQM4103JZ	P 0.01UF, J,400V	1	
C636	ECA1HHG100	E 10UF, 50V	1	
C637,38	ECKD3A472KBP	C 4700PF, K, 1KV	2	
C639	ECQB1H473JF	P 0.047UF, J, 50V	1	
C650-52	ECKF1H103ZF	C 0.01UF, Z, 50V	3	
C653	ECQV1H104JM	P 0.1UF, J, 50V	1	
C654	ECQB1H221KF	P 220PF, K, 50V	1	ECQB1H221KF3
C655	ECA1HHG220	E 22UF, 50V	1	
C656	ECA1HHG010	E 1UF, 50V	1	
C657	ECQB1H102JF	P 1000PF, J, 50V	1	
C658	ECQB1H561JF	P 560PF, J, 50V	1	ECQB1H561JF3
C659	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C660	ECQB1H103JF	P 0.01UF, J, 50V	1	
C661,62	ECQB1H102JF	P 1000PF, J, 50V	2	
C730	ECQB1H681JF	P 680PF, J, 50V	1	
C731	ECKF1H221KB	C 220PF, K, 50V	1	
C732	ECA1HHG220	E 22UF, 50V	1	
C733	ECQB1H102JF	P 1000PF, J, 50V	1	
C734	EEUFC1H221	E 220UF, 50V	1	
C735	ECQV1H104JM	P 0.1UF, J, 50V	1	
C736	ECJ2VB1C224K	C 0.22UF, K, 16V	1	
C737	ECQB1H334JF	P 0.33UF, J, 50V	1	
C738-40	ECQB1H102JF	P 1000PF, J, 50V	3	
C741	ECA1HHG220	E 22UF, 50V	1	
C742	ECQB1H103JF	P 0.01UF, J, 50V	1	
C743-45	ECQV1H104JM	P 0.1UF, J, 50V	3	
C750,51	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C752	ECA1EHG471	E 470UF, 25V	1	
C754	ECA1EHG470	E 47UF, 25V	1	
C755	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C756	ECA1EHG470	E 47UF, 25V	1	
C775,76	ECKF1H103ZF	C 0.01UF, Z, 50V	2	
C778-81	ECA1HHG010	E 1UF, 50V	4	
C782	ECA1EHG101	E 100UF, 25V	1	
C783	ECA1EHG470	E 47UF, 25V	1	
C784	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C785	ECA1EHG471	E 470UF, 25V	1	
C786	ECKF1H103ZF	C 0.01UF, Z, 50V	1	
C787	ECA1EHG470	E 47UF, 25V	1	
C900	ECQU2A105BN9	P 1UF, 250V	1	⚠
C901	ECQU2A224BN9	P 0.22UF, 250V	1	⚠
C903-06	ECKCNA221MB7	C 220PF	4	ECKDNA221MB ⚠
C907	ECQU2A105MGA	P 1UF, 250V	1	⚠
C908	ECQU2A224BN9	P 0.22UF, 250V	1	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C909-12	ECKCNA221MB7	C 220PF	4	ECKDNA221MB 
C2312	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2313	ECA1HHG470	E 47UF, 50V	1	
C2314	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C2316,17	ECQV1H474JM	P 0.47UF, J, 50V	2	
C2318,19	ECJ2XC1H561J	C 560PF, J, 50V	2	
C2320-22	ECJ2VF1H104Z	C 0.1UF, Z, 50V	3	
C2323	ECA1HHG221	E 220UF, 50V	1	
C2324	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2325	ECA1HHG221	E 220UF, 50V	1	
C2326,27	ECJ2XC1H221J	C 220PF, J, 50V	2	
C2328,29	ECJ2VF1H104Z	C 0.1UF, Z, 50V	2	
C2330	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2331	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2332	ECJ2XB1H472K	C 4700PF, K, 50V	1	
C2333	ECJ2XC1H101J	C 100PF, J, 50V	1	
C2334,35	TCUY1C225KBM	C 2.2UF, 16V	2	F1K1C225A026
C2336,37	ECJ2XB1H473K	C 0.047UF, K, 50V	2	
C2338,39	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2340-43	ECJ2VF1H104Z	C 0.1UF, Z, 50V	4	
C2344-47	EEUGZ1D102SB	E 1000UF, 20V	4	
C2348	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2349,50	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2417	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2419	EEVHB1C100	E 10UF, 16V	1	
C2422	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C2423	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2426	ECJ2XB1H153K	C 0.015UF, K, 50V	1	
C2427	EEVHB1C100	E 10UF, 16V	1	
C2429	EEAGA1C101	E 100UF, 16V	1	
C2431	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C2433	ECJ2XB1H393K	C 0.039UF, K, 50V	1	
C2434	ECJ2XB1H223K	C 0.022UF, K, 50V	1	
C2435	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2436	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C2437,38	EEAGA1C101	E 100UF, 16V	2	
C2440,41	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C2442	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2450	EEVHB1C100	E 10UF, 16V	1	
C2451	EEVHB1E4R7	E 4.7UF, 25V	1	
C2452	ECJ2XB1H562K	C 5600PF, K, 50V	1	
C2453	ECJ2VF1H104Z	C 0.1UF, Z, 50V	1	
C2454	EEVHB1E4R7	E 4.7UF, 25V	1	
C2457	EEVHB1E4R7	E 4.7UF, 25V	1	
C2458	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2459	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C2460	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2461	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C2463	ECJ2XB1H473K	C 0.047UF, K, 50V	1	
C2466,67	TCUY1C105KBM	C 1UF, 16V	2	F1K1C105A026
C2480	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2484	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3001-03	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3004	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3005-07	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3008,09	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C3010-12	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3013,14	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C3015-17	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3018	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C3019	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3020	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3021	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3022	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C3023	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3024	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C3026	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C3027	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3028	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C3029	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3030,31	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C3032	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3033-35	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C3036	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C3037-39	EEVHB1C470	E 47UF, 16V	3	EEVHB1C470P
C3040,41	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3042	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3049,50	ECJ1VB1C104K	C 0.1UF, K, 16V	2	
C3301,02	ECJ2XB1E104K	C 0.1UF, K, 25V	2	
C3303,04	EEVHB1C470	E 47UF, 16V	2	EEVHB1C470P
C3305	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3306,07	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3309	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3310	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3311	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3312,13	EEVHB1C470	E 47UF, 16V	2	EEVHB1C470P
C3314	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3351,52	ECJ3XB0J106M	C 10UF, M, 6.3V	2	
C3353-60	ECJ2VF1C105Z	C 1UF, Z, 16V	8	
C3361	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3362	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3363	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3364	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3365	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3404	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3405	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3406	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3407	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3409	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3410	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3501	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3502	EEVHP1E220	E 22UF, 25V	1	EEVHP1E220P
C3503,04	EEVHP1E100	E 10UF, 25V	2	
C3505	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3506	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C3507	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3509-12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C3516-18	EEVHB1C470	E 47UF, 16V	3	EEVHB1C470P

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3520	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3521	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3523	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3524	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3529-31	ECJ3XB0J106M	C 10UF, M,6.3V	3	
C3533,34	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3542	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3544	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3550	ECJ2VF1H103Z	C 0.01UF, Z, 50V	1	
C3551	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3561,62	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3591,92	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C3593	ECJ2VF1E104Z	C 0.1UF, Z, 25V	1	
C3594,95	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C3700	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3701	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3702	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3703	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3704	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3706	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3708	EEVHB0G221	E 220UF, 4V	1	
C3709	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3710-13	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C3714	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3715	EEVHB0G221	E 220UF, 4V	1	
C3716	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3717,18	EEVHB1C470	E 47UF, 16V	2	EEVHB1C470P
C3723	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3726	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C3727,28	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C3729	ECJ2XB1H471K	C 470PF, K, 50V	1	
C3801	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3802	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3803	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3804	ECJ1XC1H470J	C 47PF, J, 50V	1	
C3805	ECJ1XC1H220J	C 22PF, J, 50V	1	
C3806	ECJ1XC1H680J	C 68PF, J, 50V	1	
C3808	EEVHP1E220	E 22UF, 25V	1	EEVHP1E220P
C3809	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3810	EEVHB0J220	E 22UF 6.3V	1	
C3812	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3815	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C3816	EEVHP1E100	E 10UF, 25V	1	
C3817	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3818	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3819	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3820	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3821	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3823	EEVHB0J101	E 100UF, 6.3V	1	EEVHB0J101P
C3824,25	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3826	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C3828,29	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3830,31	ECJ1XC1H180J	C 18PF, J, 50V	2	
C3832-34	ECJ2VF1C105Z	C 1UF, Z, 16V	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3835	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3836-38	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3840	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3841	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3842	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3843	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3844	EEVHB0J152	E 1500UF, 6.3V	1	
C3845,46	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3848-50	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3852,53	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3854	ECJ1VC1H080C	C 8PF, C, 50V	1	
C3855-57	ECJ2VF1C105Z	C 1UF, Z, 16V	3	
C3858	EEVHB0G221	E 220UF, 4V	1	
C3859,60	EEVHB0J152	E 1500UF, 6.3V	2	
C3861	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3862	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3863	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3864	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3865	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3866	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3867	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C3868	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3869	ECJ1XC1H330J	C 33PF, J, 50V	1	
C3870,71	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3872	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3873	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3874	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C3875	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3876	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C3877	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C3878-83	ECJ2VF1C105Z	C 1UF, Z, 16V	6	
C3884	ECJ1VB1H153K	C 0.15UF, K, 50V	1	
C3885	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3886	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3887	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3888	ECJ1XC1H101J	C 100PF, J, 50V	1	
C3889	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C3890	ECJ3XB0J106M	C 10UF, M, 6.3V	1	
C3891,92	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C3893	TCUY0J335MBM	C 3.3UF, 6.3V	1	F1K0J335A003
C3894	EEVHB0G221	E 220UF, 4V	1	
C3896	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3897	ECJ1XC1H680J	C 68PF, J, 50V	1	
C3898	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C3899	ECJ1XC1H330J	C 33PF, J, 50V	1	
C4518	ECJ1VB1H152K	C 1500PF, K, 50V	1	
C4551	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C6400	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6401-06	TCUY1C105ZFN	C 1UF, 16V	6	F1J1C1050006
C6408	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6409,10	TACCP2E104MT	C 0.1UF, 250V	2	F1L2E1040002
C6417,18	TACCP2E104MT	C 0.1UF, 250V	2	F1L2E1040002
C6420	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6421-26	TCUY1C105ZFN	C 1UF, 16V	6	F1J1C1050006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6427,28	TACCP2E104MT	C 0.1UF, 250V	2	F1L2E1040002
C6430	ECJ2XB1H222K	C 2200PF, K, 50V	1	
C6437,38	TACCP2E104MT	C 0.1UF, 250V	2	F1L2E1040002
C6452	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6453	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6454	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6455	EEUFC1E221	E 220UF, 25V	1	
C6456	ECA2CM101	E 100UF, 160V	1	
C6457	EEUFC1E221	E 220UF, 25V	1	
C6458	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6459	EEUFC1E470	E 47UF, 25V	1	
C6461	ECA1HM471	E 470UF, 50V	1	
C6462,63	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6464,65	ECA2CHG2R2	E 2.2UF, 160V	2	
C6472	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6473	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6474	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6475	EEUFC1E221	E 220UF, 25V	1	
C6476	ECA2CM101	E 100UF, 160V	1	
C6490,91	ECJ3XK2J102K	C 1000PF, K,630V	2	
C6492	EEUED2V100	E 10UF, 350V	1	
C6493	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6501-08	TCUY1C105ZFN	C 1UF, 16V	8	F1J1C1050006
C6509	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6511,12	ECJ3YB1E105K	C 1UF, K, 25V	2	
C6513	ECA2CM101	E 100UF, 160V	1	
C6521	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6522	EEUFC1E470	E 47UF, 25V	1	
C6524,25	ECJ3FC2D102J	C 1000PF, J,200V	2	
C6526	ECA2EHG4R7	E 4.7UF, 250V	1	
C6540	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6541,42	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6543-45	ECJ3FC2D102J	C 1000PF, J,200V	3	
C6546	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6550	ECA2CM101	E 100UF, 160V	1	
C6571	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6574-78	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C6580,81	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6584	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6585	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6598	ECA2CM101	E 100UF, 160V	1	
C6601-04	ECA2DHG221	E 220UF, 200V	4	
C6609	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6610	EEUFC1E221	E 220UF, 25V	1	
C6611-20	ECJ3XK2J102K	C 1000PF, K,630V	10	
C6621,22	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6623	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6625	ECJ4XB1E475M	C 4.7UF, M, 25V	1	
C6626	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6627,28	EEUFC1E470	E 47UF, 25V	2	
C6629	F2A2D1510004	E 150UF, 200V	1	
C6631-33	ECWF2205JS	P 1UF, 250V	3	
C6638	ECWF2205JS	P 1UF, 250V	1	
C6639	ECQE2105RKB	P 1UF, 250V	1	





Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6650,51	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6652	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6653	ECQE2224KF	P 0.22UF, 250V	1	
C6681,82	TCUY1C105ZFN	C 1UF, 16V	2	F1J1C1050006
C6683,84	EEUFC1E470	E 47UF, 25V	2	
C6685-94	ECJ3XK2J102K	C 1000PF, K,630V	10	
C6701-08	ECWF2105JS	P 1UF, 250V	8	
C6709	ECQE2105RKB	P 1UF, 250V	1	
C6710-14	ECA2DHG221	E 220UF, 200V	5	
C6717	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6718-20	EEUFC1E221	E 220UF, 25V	3	
C6721	EEUFC1E470	E 47UF, 25V	1	
C6722,23	ECA2CM101	E 100UF, 160V	2	
C6724	ECA2DHG221	E 220UF, 200V	1	
C6727-46	ECJ3XK2J102K	C 1000PF, K,630V	20	
C6747,48	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6749	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6750,51	ECJ4XB1E475M	C 4.7UF, M, 25V	2	
C6752	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C6753	ECQE2224KF	P 0.22UF, 250V	1	
C6758,59	ECJ3YB1E105K	C 1UF, K, 25V	2	
C6762-64	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C6784	ECJ3XB2J222K	C 2200PF, K,630V	1	
C7106	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7107-11	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7120-23	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7127	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7131,32	F1K2A1040004	C 0.1UF, 100V	2	
C7135,36	F1K2A1040004	C 0.1UF, 100V	2	
C7139,40	F1K2A1040004	C 0.1UF, 100V	2	
C7143,44	F1K2A1040004	C 0.1UF, 100V	2	
C7150	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C7151	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7152-54	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C7155,56	F1L1E4750004	C 4.7UF, 25V	2	
C7157	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7158	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7159	ECQE2105RKB	P 1UF, 250V	1	
C7161	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7162,63	F1L1E4750004	C 4.7UF, 25V	2	
C7165	ECQE2105RKB	P 1UF, 250V	1	
C7201	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7202	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7209-11	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C7220-22	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C7231,32	F1K2A1040004	C 0.1UF, 100V	2	
C7235,36	F1K2A1040004	C 0.1UF, 100V	2	
C7239,40	F1K2A1040004	C 0.1UF, 100V	2	
C7306	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7307-11	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7320-23	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7327	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7331,32	F1K2A1040004	C 0.1UF, 100V	2	
C7335,36	F1K2A1040004	C 0.1UF, 100V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7339,40	F1K2A1040004	C 0.1UF, 100V	2	
C7343,44	F1K2A1040004	C 0.1UF, 100V	2	
C7406	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7407-11	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7420-23	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7427	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7428	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C7431,32	F1K2A1040004	C 0.1UF, 100V	2	
C7435,36	F1K2A1040004	C 0.1UF, 100V	2	
C7439,40	F1K2A1040004	C 0.1UF, 100V	2	
C7443,44	F1K2A1040004	C 0.1UF, 100V	2	
C7506	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7507-10	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7520-22	TCUY1C105ZFN	C 1UF, 16V	3	F1J1C1050006
C7531,32	F1K2A1040004	C 0.1UF, 100V	2	
C7535,36	F1K2A1040004	C 0.1UF, 100V	2	
C7539,40	F1K2A1040004	C 0.1UF, 100V	2	
C7606	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C7607-11	TCUY1C105ZFN	C 1UF, 16V	5	F1J1C1050006
C7620-23	TCUY1C105ZFN	C 1UF, 16V	4	F1J1C1050006
C7627	TACCP2E104MT	C 0.1UF, 250V	1	F1L2E1040002
C7631,32	F1K2A1040004	C 0.1UF, 100V	2	
C7635,36	F1K2A1040004	C 0.1UF, 100V	2	
C7639,40	F1K2A1040004	C 0.1UF, 100V	2	
C7643,44	F1K2A1040004	C 0.1UF, 100V	2	
C8001	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8002	EEVHP1E220	E 22UF, 25V	1	EEVHP1E220P
C8003	ECJ1VB1H471K	C 470PF, K, 50V	1	
C8005	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8007	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8008	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C8009	TCUY1C475ZFM	C 4.7UF, 16V	1	F1K1C4750018
C8010	TCUY1C225KBM	C 2.2UF, 16V	1	F1K1C225A026
C8011	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C8012	ECJ1VB1H103K	C 0.01UF, K, 50V	1	
C8013	ECJ3VB1C474K	C 0.47UF, K, 16V	1	
C8014,15	ECJ1VB1H103K	C 0.01UF, K, 50V	2	
C8016	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C8017	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C8018	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C8019	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C8020	ECJ1XC1H101J	C 100PF, J, 50V	1	
C8021	ECJ2XC1H222J	C 2200PF, J, 50V	1	
C9000,01	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9002	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9003	EEVHB0G221	E 220UF, 4V	1	
C9004	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9005	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9008-10	EEVHP1E220	E 22UF, 25V	3	EEVHP1E220P
C9011	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9012	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9013	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9014	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9015	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9016	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9017-19	ECJ1XC1H030C	C 3PF, C, 50V	3	
C9021-24	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9025,26	ECJ2VB1E473K	C 0.047UF, K, 25V	2	
C9027	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C9028	ECJ2VB1E473K	C 0.047UF, K, 25V	1	
C9031	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9032,33	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9034	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9035	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9036	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9037-39	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9040	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C9041	ECJ1VB1H392K	C 3900PF, K, 50V	1	
C9042	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9045	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9048,49	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9054	ECJ1XC1H101J	C 100PF, J, 50V	1	
C9202	EEVHB0J330	E 33UF, 6.3V	1	
C9203	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9204-06	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9208-12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	
C9213	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9215	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9216	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9217	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9218-20	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9225,26	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9229	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9236,37	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9243-46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9255	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9256	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9258-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9261	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9262	ECJ3XC1H822J	C 8200PF, J, 50V	1	
C9263	ECJ2VB1C104K	C 0.1UF, K, 16V	1	
C9264	ECJ2VB1E563K	C 0.056UF, K, 25V	1	
C9265	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9266	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9267	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9268	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9269	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9300	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9302	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9304,05	EEVHB0G221	E 220UF, 4V	2	
C9306-08	ECJ1VB1C104K	C 0.1UF, K, 16V	3	
C9310	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9312	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9314	EEVHB0G221	E 220UF, 4V	1	
C9315	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9316	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9317	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9318	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026



Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9319	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9320	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9321	ECJ1VB1C104K	C 0.1UF, K, 16V	1	
C9353	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9354	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9355	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9356	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9357	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9358	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9361-66	ECJ1XC1H101J	C 100PF, J, 50V	6	
C9367	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9368	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9369,70	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9371	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9372	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9373	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9374	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9375	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9377,78	ECJ1VF1H103Z	C 0.01UF, Z, 50V	2	
C9379,80	ECJ1XC1H100D	C 10PF, D, 50V	2	
C9381	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9382	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9383	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9385	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9387,88	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9390,91	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9392	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9393	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9400	EECS5R5V155	E 1.5UF, 5.5V	1	
C9401	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9402,03	ECJ1XC1H150J	C 15PF, J, 50V	2	
C9450	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9451	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9452,53	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9454	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9455-60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	6	
C9464	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9465	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9466,67	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9468	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9469	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9470	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9472	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9502	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9503	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9504	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9506	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9507,08	F2G0J1010021	E 100UF 6.3V	2	
C9526	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9528-31	F2G1C4700030	E 47UF, 16V	4	
C9532,33	ECJ3XF1C475Z	C 4.7UF, Z, 16V	2	
C9543	EEVHB0G221	E 220UF, 4V	1	
C9544	F2G0J1010021	E 100UF 6.3V	1	
C9570	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9573	EEVHB0G221	E 220UF, 4V	1	
C9574	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9575-77	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9579,80	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9583	ECJ1VB1H102K	C 1000PF, K, 50V	1	
C9584,85	ECJ2XB1E104K	C 0.1UF, K, 25V	2	
C9586	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9587	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C9588	F2G0J1010021	E 100UF 6.3V	1	
C9589	ECJ2XC1H222J	C 2200PF, J, 50V	1	
C9590	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9591	F2G0J1010021	E 100UF 6.3V	1	
C9602,03	ECJ1XC1H101J	C 100PF, J, 50V	2	
C9608,09	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9610-13	ECJ3XF1C475Z	C 4.7UF, Z, 16V	4	
C9614-41	ECJ1XF1C104Z	C 0.1UF, Z, 16V	28	
C9642	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9643,44	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9645	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9647	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9648	ECJ1XC1H331J		1	
C9649	ECJ1XC1H100D	C 10PF, D, 50V	1	
C9650	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9651	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9658	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9659,60	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9661	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9664,65	TCUY0J685MBM	C 6.8UF, 6.3V	2	F1K0J685A003
C9666,67	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9668	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9700	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9701	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9702	ECJ1VF1H103Z	C 0.01UF, Z, 50V	1	
C9705	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9706,07	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9708	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9709-12	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9713	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9714,15	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9716	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9717,18	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9719	TCUY1C105KBM	C 1UF, 16V	1	F1K1C105A026
C9721,22	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9723	ECJ1XC1H471J	C 470PF, J, 50V	1	
C9724	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9725	TCUY0J685MBM	C 6.8UF, 6.3V	1	F1K0J685A003
C9726-29	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C9730	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9731	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9800-05	ECJ1XF1C104Z	C 0.1UF, Z, 16V	6	
C9806	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9807-14	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9815	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9880-84	ECJ1XF1C104Z	C 0.1UF, Z, 16V	5	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C9885	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9886-93	ECJ1XF1C104Z	C 0.1UF, Z, 16V	8	
C9894	ECJ3XF1C475Z	C 4.7UF, Z, 16V	1	
C9895	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9901,02	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9903	EEVHB1C470	E 47UF, 16V	1	EEVHB1C470P
C9907	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9908	ECJ1XF1H102Z	C 1000PF, Z, 50V	1	
C9915	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9916	ECJ1VB1C563K	C 0.056UF, K, 16V	1	
C9917,18	ECJ1XC1H330J	C 33PF, J, 50V	2	
C9922	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9923	TCUY1C105ZFN	C 1UF, 16V	1	F1J1C1050006
C9924,25	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
CA1-11	K1MN80B00001	1P CONNECTOR	11	
CB1-11	K1MN80B00001	1P CONNECTOR	11	
D1	K1KA50B00064	50P CONNECTOR	1	
D2,D3	K1KA40B00076	40P CONNECTOR	2	
D4	K1KA12B00066	CONNECTOR	1	
D10	K1KA04A00199	CONNECTOR	1	
D12,13	K1KA50A00125	CONNECTOR	2	
D16	K1KA10A00317	10P CONNECTOR	1	
D17	K1KA08A00293	8P CONNECTOR	1	
D20	K1KA10A00266	10P CONNECTOR	1	
D21	K1KA11A00078	11P CONNECTOR	1	
D22,23	K1KA50A00125	CONNECTOR	2	
D25	K1KA08A00293	8P CONNECTOR	1	
D26	K1KA10A00317	10P CONNECTOR	1	
D27	K1KA09A00077	9P CONNECTOR	1	
D31-34	K1MN80B00002	CONNECTOR	4	
D081	LNJ107W5PRW	LED	1	
D082	MA8056M	ZENER DIODE	1	MAZ80560M
D400,01	EG01	DIODE	2	
D402	RBV-2506	DIODE	1	
D403	MA4300H	ZENER DIODE	1	MAZ43000H
D404	D1NL20UV70	DIODE	1	B0HAMM000072
D405,06	MA700A	DIODE	2	MA2C700A
D407	FMLG26S	DIODE	1	
D408	MA4300H	ZENER DIODE	1	MAZ43000H
D409,10	D1NL20UV70	DIODE	2	B0HAMM000072
D411	MA165	DIODE	1	MA2C165
D412,13	D1NL20UV70	DIODE	2	B0HAMM000072
D414	B0HAMM000004	DIODE	1	
D415	RK34	DIODE	1	
D416	B0HAMM000004	DIODE	1	
D417-19	D1NL20UV70	DIODE	3	B0HAMM000072
D420	ERZV10V621P2	VARISTOR	1	
D421	S1WBA80	DIODE	1	B0EBKT000003 
D423,24	AK04	DIODE	2	B0JAMC000003
D425	ERA22-10	DIODE	1	B0EAEV000002

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Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D426	MA165	DIODE	1	MA2C165
D427	RC3B2LFU1	DIODE	1	
D428	D1NL20UV70	DIODE	1	B0HAMM0000072
D429	MA2120A	ZENER DIODE	1	MAZ21200A
D431	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 
D432	FMLG26S	DIODE	1	
D433	TVSES1C	DIODE	1	B0HAGV000006
D435	MA167	DIODE	1	MA2C167
D436	MA4300H	ZENER DIODE	1	MAZ43000H
D437,38	FMLG26S	DIODE	2	
D439,40	EU02	DIODE	2	
D441,42	ERC91-02	DIODE	2	B0HAPM000003
D443,44	FML-G12S	DIODE	2	
D445	MA4300H	ZENER DIODE	1	MAZ43000H
D446	MA4051M	ZENER DIODE	1	MAZ40510M
D447	D1NL20UV70	DIODE	1	B0HAMM0000072
D448	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 
D449,50	MA4300H	ZENER DIODE	2	MAZ43000H
D451-54	FMLG16S	DIODE	4	B0HARR000008
D455	MA165	DIODE	1	MA2C165
D459	MA700A	DIODE	1	MA2C700A
D460	MA165	DIODE	1	MA2C165
D461	D1NL20UV70	DIODE	1	B0HAMM0000072
D462	RK34	DIODE	1	
D464-66	D1NL40V70	DIODE	3	B0HALP000002
D467-70	MA165	DIODE	4	MA2C165
D471	MA167	DIODE	1	MA2C167
D472	D1NL20UV70	DIODE	1	B0HAMM0000072
D473	RK34	DIODE	1	
D474	MA167	DIODE	1	MA2C167
D475	D1NL20UV70	DIODE	1	B0HAMM0000072
D476,77	AK04	DIODE	2	B0JAMC000003
D478	MA167	DIODE	1	MA2C167
D479	MA4056M	ZENER DIODE	1	MAZ40560M
D480,81	ERA15-02	DIODE	2	B0EAKM000016
D484-87	ERA22-04	DIODE	4	B0HAGP000001
D500	ERA15-02	DIODE	1	B0EAKM000016
D504	MA4047H	ZENER DIODE	1	MAZ40470H
D505	MA4082L	ZENER DIODE	1	MAZ40820L
D507	TMPG10G3	DIODE	1	B0BA01000046
D508	B0BA02700021	DIODE	1	
D509	MA4068H	ZENER DIODE	1	MAZ40680H
D510,11	TMPG10G3	DIODE	2	B0BA01000046
D512	D1NL20UV70	DIODE	1	B0HAMM0000072
D514,15	MA4082L	ZENER DIODE	2	EXCEPT UY/UZ VERSION MAZ40820L
D516	PC123FY2	PHOTO COUPLER	1	EXCEPT UY/UZ VERSION B3PAA0000012
D517	D1NL20UV70	DIODE	1	EXCEPT UY/UZ VERSION B0HAMM0000072
D518	MA165	DIODE	1	EXCEPT UY/UZ VERSION MA2C165
D519	MA4047M	ZENER DIODE	1	EXCEPT UY/UZ VERSION MAZ40470M

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D520,21	MA165	DIODE	2	EXCEPT UY/UZ VERSION MA2C165
D601	CR02AM-4	THYRISTOR	1	B2AAAL000003
D602	MA3082M	ZENER DIODE	1	MAZ30820M
D603	MA152K	DIODE	1	MA3X152K
D604	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 
D606	PC123FY2	PHOTO COUPLER	1	B3PAA0000012 
D607	MA152K	DIODE	1	MA3X152K
D608	M1FS4	DIODE	1	
D635	MA3062M	ZENER DIODE	1	MAZ30620M
D650	MA3110M	ZENER DIODE	1	MAZ31100M
D651	MA111	DIODE	1	MA2J111
D652	D1FL40F4063	DIODE	1	B0EHP000001
D654	M1FS4	DIODE	1	
D655	MA3082M	ZENER DIODE	1	MAZ30820M
D656	M1FS4	DIODE	1	
D657,58	D1FL40F4063	DIODE	2	B0EHP000001
D659	MA3082M	ZENER DIODE	1	MAZ30820M
D660	MA3020	ZENER DIODE	1	
D730	MA152K	DIODE	1	MA3X152K
D731-33	D1FL40F4063	DIODE	3	B0EHP000001
D734	MA152K	DIODE	1	MA3X152K
D735	MA3300L	ZENER DIODE	1	MAZ33000L
D736	D1FL40F4063	DIODE	1	B0EHP000001
D737	M1FS4	DIODE	1	
D738	D1FL40F4063	DIODE	1	B0EHP000001
D739	MA3300L	ZENER DIODE	1	MAZ33000L
D740	D1FL40F4063	DIODE	1	B0EHP000001
D742	MA152K	DIODE	1	MA3X152K
D750	MA3047H	ZENER DIODE	1	
D751,52	MA111	DIODE	2	MA2J111
D753	MA3033L	ZENER DIODE	1	MAZ30330L
D775,76	MA111	DIODE	2	MA2J111
D777	MA3039H	ZENER DIODE	1	MAZ30390H
D900	ERZV10V621P2	VARISTOR	1	
D2301-04	M1FS4	DIODE	4	
D2305,06	RU4AM	DIODE	2	
D2307	MA111	DIODE	1	MA2J111
D2308	MA152	DIODE	1	
D2316,17	M1FS4	DIODE	2	
D3001	MA111	DIODE	1	MA2J111
D3002	M1FS4	DIODE	1	
D3351,52	MA153	DIODE	2	MA3X153
D3501-04	MA3056M	ZENER DIODE	4	MAZ30560M
D3505,06	MA153	DIODE	2	MA3X153
D3507	MA111	DIODE	1	MA2J111
D6401,02	MA8056H	ZENER DIODE	2	MAZ80560H
D6408,09	D1FL40F4063	DIODE	2	B0EHP000001
D6411,12	MA8056H	ZENER DIODE	2	MAZ80560H
D6418,19	D1FL40F4063	DIODE	2	B0EHP000001
D6452,53	MA111	DIODE	2	MA2J111
D6454	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6455	MA111	DIODE	1	MA2J111

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6456	D1FL40F4063	DIODE	1	B0EHP000001
D6457	M1FL20UF4063	DIODE	1	B0HCMM000009
D6458	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6459	MA111	DIODE	1	MA2J111
D6460,61	B0HCKS000001	DIODE	2	
D6465,66	MA8330M	ZENER DIODE	2	MAZ83300ML
D6467	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6468	MA111	DIODE	1	MA2J111
D6469	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6470	MA111	DIODE	1	MA2J111
D6472,73	MA111	DIODE	2	MA2J111
D6474	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6475	MA111	DIODE	1	MA2J111
D6476	D1FL40F4063	DIODE	1	B0EHP000001
D6477	MA8051L	ZENER DIODE	1	MAZ80510L
D6478	B0HCKS000001	DIODE	1	
D6479	MA111	DIODE	1	MA2J111
D6480	TLP181	PHOTO COUPLER	1	B3PBA0000081
D6481,82	MA8330M	ZENER DIODE	2	MAZ83300ML
D6491,92	D1FL40F4063	DIODE	2	B0EHP000001
D6495	B0HCKS000001	DIODE	1	
D6501-08	K7GBZEE00002	PHOTO COUPLER	8	
D6509	MA111	DIODE	1	MA2J111
D6511	M1FL20UF4063	DIODE	1	B0HCMM000009
D6512-14	MA111	DIODE	3	MA2J111
D6520	MA111	DIODE	1	MA2J111
D6521	D1FL40F4063	DIODE	1	B0EHP000001
D6522	MA111	DIODE	1	MA2J111
D6523	D1FL40F4063	DIODE	1	B0EHP000001
D6524	MA8051L	ZENER DIODE	1	MAZ80510L
D6525	MA111	DIODE	1	MA2J111
D6526	M1FL20UF4063	DIODE	1	B0HCMM000009
D6529-31	MA8051L	ZENER DIODE	3	MAZ80510L
D6541	B0HCKS000001	DIODE	1	
D6542	MA111	DIODE	1	MA2J111
D6543	MA8051L	ZENER DIODE	1	MAZ80510L
D6544	MA111	DIODE	1	MA2J111
D6545	MA8051L	ZENER DIODE	1	MAZ80510L
D6546-48	MA8330M	ZENER DIODE	3	MAZ83300ML
D6549,50	MA111	DIODE	2	MA2J111
D6551,52	MA8051L	ZENER DIODE	2	MAZ80510L
D6553	MA111	DIODE	1	MA2J111
D6570	M1FL20UF4063	DIODE	1	B0HCMM000009
D6572	D1FL40F4063	DIODE	1	B0EHP000001
D6582	MA8051L	ZENER DIODE	1	MAZ80510L
D6583	LNJ201LPQJA	LED	1	
D6584	MA111	DIODE	1	MA2J111
D6585,86	MA8330M	ZENER DIODE	2	MAZ83300ML
D6600	D1FL40F4063	DIODE	1	B0EHP000001
D6605-10	M1FS4	DIODE	6	
D6611-22	B0HDMS000004	DIODE	12	
D6623-29	SF20LC30F10	DIODE	7	
D6631,32	D1FL40F4063	DIODE	2	B0EHP000001
D6633,34	M1FS4	DIODE	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6641,42	D1FL40F4063	DIODE	2	B0ECHP000001
D6643	MA111	DIODE	1	MA2J111
D6644	MA8051L	ZENER DIODE	1	MAZ80510L
D6649	D1FL40F4063	DIODE	1	B0ECHP000001
D6711-22	B0HDSM000004	DIODE	12	
D6723-29	SF20LC30F10	DIODE	7	
D6734-39	M1FS4	DIODE	6	
D6740-42	D1FL40F4063	DIODE	3	B0ECHP000001
D6743	MA111	DIODE	1	MA2J111
D6744	MA8051L	ZENER DIODE	1	MAZ80510L
D6749,50	M1FS4	DIODE	2	
D6751-53	D1FL40F4063	DIODE	3	B0ECHP000001
D6758,59	MA8330M	ZENER DIODE	2	MAZ83300ML
D6760	LNJ201LPQJA	LED	1	
D6761	MA8051L	ZENER DIODE	1	MAZ80510L
D6762	MA111	DIODE	1	MA2J111
D6769	D1FL40F4063	DIODE	1	B0ECHP000001
D6772	MA111	DIODE	1	MA2J111
D6773	D1FL40F4063	DIODE	1	B0ECHP000001
D7101,02	M1FL20UF4063	DIODE	2	B0HCMM000009
D7105	M1FL20UF4063	DIODE	1	B0HCMM000009
D7108,09	M1FL20UF4063	DIODE	2	B0HCMM000009
D7111	M1FL20UF4063	DIODE	1	B0HCMM000009
D7113	M1FL20UF4063	DIODE	1	B0HCMM000009
D7115	M1FL20UF4063	DIODE	1	B0HCMM000009
D7150,51	MA152	DIODE	2	
D7152	D1FL20UF4063	DIODE	1	B0HCMM000001
D7153,54	M1FS4	DIODE	2	
D7155,56	DE5LC20UF61	DIODE	2	
D7157	M1FS4	DIODE	1	
D7160	MA111	DIODE	1	MA2J111
D7161	MA8051L	ZENER DIODE	1	MAZ80510L
D7162,63	B0HDSM000004	DIODE	2	
D7164	D1FL20UF4063	DIODE	1	B0HCMM000001
D7166-68	M1FS4	DIODE	3	
D7202,03	M1FL20UF4063	DIODE	2	B0HCMM000009
D7206,07	M1FL20UF4063	DIODE	2	B0HCMM000009
D7209	M1FL20UF4063	DIODE	1	B0HCMM000009
D7211	M1FL20UF4063	DIODE	1	B0HCMM000009
D7301	M1FL20UF4063	DIODE	1	B0HCMM000009
D7303	M1FL20UF4063	DIODE	1	B0HCMM000009
D7305	M1FL20UF4063	DIODE	1	B0HCMM000009
D7307	M1FL20UF4063	DIODE	1	B0HCMM000009
D7309	M1FL20UF4063	DIODE	1	B0HCMM000009
D7311	M1FL20UF4063	DIODE	1	B0HCMM000009
D7313	M1FL20UF4063	DIODE	1	B0HCMM000009
D7315	M1FL20UF4063	DIODE	1	B0HCMM000009
D7401	M1FL20UF4063	DIODE	1	B0HCMM000009
D7403	M1FL20UF4063	DIODE	1	B0HCMM000009
D7405	M1FL20UF4063	DIODE	1	B0HCMM000009
D7407	M1FL20UF4063	DIODE	1	B0HCMM000009
D7409	M1FL20UF4063	DIODE	1	B0HCMM000009
D7411	M1FL20UF4063	DIODE	1	B0HCMM000009
D7413	M1FL20UF4063	DIODE	1	B0HCMM000009

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D7415	M1FL20UF4063	DIODE	1	B0HCMM000009
D7421-24	MA152K	DIODE	4	MA3X152K
D7501	M1FL20UF4063	DIODE	1	B0HCMM000009
D7503	M1FL20UF4063	DIODE	1	B0HCMM000009
D7505	M1FL20UF4063	DIODE	1	B0HCMM000009
D7507	M1FL20UF4063	DIODE	1	B0HCMM000009
D7509	M1FL20UF4063	DIODE	1	B0HCMM000009
D7511	M1FL20UF4063	DIODE	1	B0HCMM000009
D7601	M1FL20UF4063	DIODE	1	B0HCMM000009
D7603	M1FL20UF4063	DIODE	1	B0HCMM000009
D7606	M1FL20UF4063	DIODE	1	B0HCMM000009
D7608,09	M1FL20UF4063	DIODE	2	B0HCMM000009
D7611	M1FL20UF4063	DIODE	1	B0HCMM000009
D7613	M1FL20UF4063	DIODE	1	B0HCMM000009
D7615	M1FL20UF4063	DIODE	1	B0HCMM000009
D8001,02	MA111	DIODE	2	MA2J111
D9000	MA3036H	ZENER DIODE	1	MAZ30360H
D9001-09	MA3062M	ZENER DIODE	9	MAZ30620M
D9351	MA152K	DIODE	1	MA3X152K
D9352,53	MA3062M	ZENER DIODE	2	MAZ30620M
D9356	MA111	DIODE	1	MA2J111
D9550	B0JCPD000010	DIODE	1	
D9551	MA113	DIODE	1	MA2J113
D9552	M1FS4	DIODE	1	
D9553	MA152K	DIODE	1	MA3X152K
D9901	MA152K	DIODE	1	MA3X152K
F900-1.	EYF-52BC	FUSE HOLDER	1	
F1	TJS3A9630	CONNECTOR	1	K1KA03A00183
F900-2.	EYF-52BC	FUSE HOLDER	1	
F9	TJS3A9630	CONNECTOR	1	K1KA03A00183
F901-1.,2.	EYF-52BC	FUSE HOLDER	2	
H1	K1KB50B00030	50P CONNECTOR	1	
H2	K1KB40B00015	40P CONNECTOR	1	
H37	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
HX1	K1KB40B00015	40P CONNECTOR	1	
IC400	MIP0210SY1TV	IC (LOGIC)	1	
IC401	AN7715F	IC	1	
IC403	C0DAZH000013	IC	1	
IC406	AN1431T	IC	1	
IC407	SI-8050S	HYBRID IC	1	C0DAAHH00013
IC411	PQ30RV21A	LINEAR IC	1	C0DAEZH00008
IC416	AN1431T	IC	1	
IC600	UC3715N	IC	1	C0DACHA00002
IC601	MC33025P	IC	1	C0DAAKE00001
IC602	UC3715N	IC	1	C0DACHA00002
IC635	C0DAEJC00003	IC	1	
IC650	AN8026	LINEAR IC	1	
IC735	MC33262P	IC	1	C0DAZZZ00013
IC736	AN6912	LINEAR IC	1	
IC737	AN78L05	LINEAR IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC750	AN6912	LINEAR IC	1	
IC775	AN6912	LINEAR IC	1	
IC2301,02	TDA7480	LINEAR IC	2	C1AA00000561
IC2304	PQ09SZ1T	IC	1	C0CBAHG00005
IC2401	BH3865S	LINEAR IC	1	C1BA00000302
IC3001	C1AB00001139	IC	1	
IC3002,03	MC14052BF	MOS IC (CMOS GATE ARRLY)	2	C0JBAR000021
IC3004	CXA1315M	LINEAR IC	1	C1AB00000440
IC3006	PQ09SZ1T	IC	1	C0CBAHG00005
IC3007,08	PQ12SZ1T	IC	2	C0CBAKG00003
IC3009	AHC2G66HDCTR	INTEGRATED CIRCUIT	1	C0JBAS000109
IC3301	TC4W53F	MOS IC (CMOS S/LOGIC)	1	C0JBAR000224
IC3302	C0ABGB000001	IC	1	
IC3303	TC4W53F	MOS IC (CMOS S/LOGIC)	1	C0JBAR000224
IC3501	JLC1562BF	MOS IC (MICON LSI)	1	C0JBAZ001265
IC3502	TVRJ692-1	IC	1	
IC3515	C0ZBZ0000205	IC	1	
IC3699	TVRJ642-2	ROM IC	1	Z VERSION
IC3699	TVRJ784-2	ROM IC	1	Y VERSION
IC3801	C0CBABB000029	IC	1	
IC3802	C0EBE0000066	IC	1	
IC3803	TVSA0500	IC	1	C3ABMG000074
IC3804	C1AB00001494	IC	1	
IC3805,06	C0CBABB000029	IC	2	
IC3809	TC74LCX244F	MOS IC (CMOS S/LOGIC)	1	C0JBAZ001234
IC4551	C0JBAE000228	IC	1	
IC6401-06	C0HBC0000006	IC	6	
IC6411-16	C0HBC0000006	IC	6	
IC6451	AN1431M	LINEAR IC	1	
IC6452,53	AN78L15M	LINEAR IC	2	
IC6454	AN78L05M	LINEAR IC	1	
IC6471	AN1431M	LINEAR IC	1	
IC6491	AN1431M	LINEAR IC	1	
IC6501,02	TC74HC14AF	IC	2	C0JBAB000155
IC6511	C0ZBZ0000561	IC	1	
IC6521	C0ZBZ0000561	IC	1	
IC6541,42	C0ZBZ0000561	IC	2	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC6601,02	C0ZBZ0000562	IC	2	
IC6604	M63991FP	LINEAR IC	1	
IC6605,06	TC74HC244AF	IC	2	
IC6612	C0DBEZE00002	IC	1	
IC6671	AN1431M	LINEAR IC	1	
IC6701,02	C0ZBZ0000562	IC	2	
IC6704	C0ZBZ0000561	IC	1	
IC6706	TC74HC244AF	IC	1	
IC6707	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC6708	C0DBEZE00002	IC	1	
IC6709	AN1431M	LINEAR IC	1	
IC7101	C0JBAZ000005	IC	1	
IC7103-06	C0JBAZ000005	IC	4	
IC7150	NJM2903M	INTEGRATED CIRCUIT	1	C0BBBA000019
IC7151	C0ZBZ0000562	IC	1	
IC7152	C0JBAZ000005	IC	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC7153	C0ZBZ0000562	IC	1	
IC7201	C0JBAZ000005	IC	1	
IC7204-06	C0JBAZ000005	IC	3	
IC7301	C0JBAZ000005	IC	1	
IC7303-06	C0JBAZ000005	IC	4	
IC7401	C0JBAZ000005	IC	1	
IC7403-06	C0JBAZ000005	IC	4	
IC7501	C0JBAZ000005	IC	1	
IC7503-05	C0JBAZ000005	IC	3	
IC7601	C0JBAZ000005	IC	1	
IC7603-06	C0JBAZ000005	IC	4	
IC8001	M52346SP	LINEAR IC	1	C1AA00000395
IC8002	TC74HC14AF	IC	1	C0JBAB000155
IC9000	PQ09SZ1T	IC	1	C0CBAHG00005
IC9001	C0CBCBD00005	IC	1	
IC9002-04	C0ABHA000033	IC	3	
IC9006	C0CBCBD00005	IC	1	
IC9007	C0FBAD000069	IC	1	
IC9200	MN84504	MOS IC	1	
IC9203	C0CBCBD00005	IC	1	
IC9206	C0JBAZ000855	IC	1	
IC9210	C3ABPJ000042	IC	1	
IC9212	TLC2933IPWL	IC	1	C0ABFA000012
IC9213	C0CBCBD00005	IC	1	
IC9300	C0ZBZ0000551	IC	1	
IC9301	C0CBCBD00005	IC	1	
IC9351	MN102L230	IC	1	
IC9353	HM538123BJ8Z	IC	1	C3HAHC000006
IC9354	TVRJ708-3	IC	1	
IC9355	TVRJ860	IC	1	
IC9356	C0JBAZ001201	IC	1	
IC9357	C1DB00000274	IC	1	
IC9450S	TJSB01108	IC SOCKET	1	
IC9450	TVRJ709-1	IC	1	
IC9451	C1ZBZ0001996	IC	1	
IC9452	TC74HCU04AF	MOS IC (CMOS S/LOGIC)	1	C0JBAB000159
IC9453	C0EBE0000066	IC	1	
IC9455	C0CBCAD00007	IC	1	
IC9550	C0DBAZH00008	IC	1	
IC9551	C0DBAMH00006	IC	1	
IC9601	MN84505	MOS IC	1	
IC9602	C3ABPJ000043	IC	1	
IC9603	TVRJ744	IC	1	
IC9604	C0ZBZ0000423	IC	1	
IC9611	PQ07VZ012ZP	IC	1	C0DBEZG00004
IC9612	C0JBAZ000855	IC	1	
IC9651	MN84505	MOS IC	1	
IC9652	C3ABPJ000043	IC	1	
IC9653	TVRJ745	IC	1	
IC9700S	TJSB01108	IC SOCKET	1	
IC9700	TVRJ746	IC	1	
IC9701	C1ZBZ0001996	IC	1	
IC9702	PST9128NR	IC	1	C0EBE0000066
IC9703	C0CBCAD00007	IC	1	




Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC9704	C0ZBZ0000423	IC	1	
IC9710-13	C0JBAZ001201	IC	4	
IC9801-12	C0JBAZ001201	IC	12	
IC9821-32	C0JBAZ001201	IC	12	
IC9900	C2BBFE000121	IC	1	
IC9902	M51957BFP	LINEAR IC	1	C0EBB0000024
IC9904	TC7SH32F	IC	1	C0JBAE000191
JK3300	K2HA204B0097	JACK	1	Y VERSION
JK3301	K1CB106B0027	CONNECTOR	1	
JK3302	K1QBB2AB0005	CONNECTOR	1	Y VERSION
JK3303	K2HA204B0097	JACK	1	Y VERSION
JK3304	K1QBB5AB0003	CONNECTOR	1	Y VERSION
JK3305	K2HA306B0048	JACK	1	K10BB2AB0005 UY/UZ VERSION
JK3306	K2HA306B0049	JACK	1	K10BB5AB0003 UY/UZ VERSION
JK3307	K2HA204B0097	JACK	1	UY/UZ VERSION
JK3308	K2HA204B0096	JACK	1	K2HA204B0097 UY/UZ VERSION
JK3509	K1FB109B0058	CONNECTOR	1	
JK3511	TJS8A9880	CONNECTOR	1	K1FB115B0034
JK3513	K2HC103B0105	JACK	1	
JK8500	K4BC02B00013	TERMINAL	1	
JS1-24	ERJ3GEY0R00	M 0 OHM, 1/16W	24	
JS28-32	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
JS35	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS401	ERDS2TC0	C 0 OHM, 1/4W	1	
JS2301	ERJ6GEY0R00	M 0 OHM, J, 1/10W	1	
JS8019	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L401,02	TLPF102	CHOKE COIL	2	G4D5A0000007
L407	ELEXT100KA	PEAKING COIL	1	
L411	G0ZZ00001986	COIL	1	
L423-26	EXCELSA39	BEAD CHOKE	4	
L428	TLPF075	CHOKE COIL	1	G0A221G00004
L430	EXCELSA39	BEAD CHOKE	1	
L433	ERD25V0R00	C 0 OHM, 1/4W	1	
L434	G0ZZ00001987	COIL	1	
L435	EXCELD25C	BEAD CHOKE	1	
L901	G0A101L00002	CHOKE COIL	1	
L902,03	G0BYYL00004	CHOKE COIL	2	
L2301,02	G0ZZ00002023	COIL	2	
L2303,04	EXCELD25C	BEAD CHOKE	2	
L2306	ELJPA100KB	CHIP INDUCTOR	1	
L3001-03	ELJPA100KB	CHIP INDUCTOR	3	
L3007,08	ELJPA100KB	CHIP INDUCTOR	2	
L3301	TLK20LFA223M	EMI FILTER	1	J0HABB000003
L3302,03	TLK20LFA224M	EMI FILTER	2	J0HABB000004
L3304,05	TLK20LFA223M	EMI FILTER	2	J0HABB000003
L3306,07	ELJPA100KB	CHIP INDUCTOR	2	
L3351,52	TLK20LFA223M	EMI FILTER	2	J0HABB000003
L3353-55	TLK20LFA224M	EMI FILTER	3	J0HABB000004

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L3356,57	TLK20LFA223M	EMI FILTER	2	J0HABB000003
L3358,59	ELJPA100KB	CHIP INDUCTOR	2	
L3501	ELJPA100KB	CHIP INDUCTOR	1	
L3507-09	TLK20LFA224M	EMI FILTER	3	J0HABB000004
L3510-13	TLK212T256AL	EMI FILTER	4	J0HABB000012
L3525,26	ELJPA100KB	CHIP INDUCTOR	2	
L3530	ELJPA100KB	CHIP INDUCTOR	1	
L3555	ELJPA100KB	CHIP INDUCTOR	1	
L3801,02	TLK20LFA224M	EMI FILTER	2	J0HABB000004
L3803	G1C100KA0008	INDUCTOR COIL	1	
L3804	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
L3806	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L3807	TALC168T2R2K	CHIP INDUCTOR COIL	1	G1C2R2K00006
L3808	G1C100KA0008	INDUCTOR COIL	1	
L3809	TALC325T4R7M	CHIP INDUCTOR COIL	1	
L3810,11	G1C100KA0008	INDUCTOR COIL	2	
L3813	TALC168T4R7K	CHIP INDUCTOR COIL	1	G1C4R7K00013
L3814-16	G1C100KA0008	INDUCTOR COIL	3	
L3817-19	TLK20LFA224M	EMI FILTER	3	J0HABB000004
L3820,21	TLK20LFA223M	EMI FILTER	2	J0HABB000003
L3822-25	ELKE103FA	NOISE FILTER	4	
L3826,27	TLK20LFA224M	EMI FILTER	2	J0HABB000004
L3828,29	TLK20LFA223M	EMI FILTER	2	J0HABB000003
L3830	ELJPA100KB	CHIP INDUCTOR	1	
L4551	ELJPA100KB	CHIP INDUCTOR	1	
L6451,52	J0JJC0000021	CHIP INDUCTOR	2	
L6471	J0JJC0000021	CHIP INDUCTOR	1	
L6607,08	J0JJC0000021	CHIP INDUCTOR	2	
L6611-15	G0A1R0L00001	CHOKE COIL	5	
L6618-56	J0JJC0000021	CHIP INDUCTOR	39	
L6701-04	G0A1R0L00001	CHOKE COIL	4	
L6713	TSKA158	BEAD CORE	1	G0ZZ00001935
L6714	TALL08N101KA	INDUCTION COIL	1	G0A101EA0008
L6715-17	TSKA158	BEAD CORE	3	G0ZZ00001935
L6718-56	J0JJC0000021	CHIP INDUCTOR	39	
L6758	J0JJC0000021	CHIP INDUCTOR	1	
L6767	G0A1R0L00001	CHOKE COIL	1	
L7101-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7111	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7162-65	TLPF097	CHOKE COIL	4	G1A1R0H00001
L7166-69	J0JJC0000021	CHIP INDUCTOR	4	
L7201-07	TSKA122	CHIP INDUCTOR	7	J0JJC0000011
L7301-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7311	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7401-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7411	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L7501-07	TSKA122	CHIP INDUCTOR	7	J0JJC0000011
L7601-08	TSKA122	CHIP INDUCTOR	8	J0JJC0000011
L7611	TSKA122	CHIP INDUCTOR	1	J0JJC0000011
L8001,02	ELJPA100KB	CHIP INDUCTOR	2	
L8501,02	TLPD061	LINE FILTER	2	G0A2R5H00003
L9001-04	ELKE103FA	NOISE FILTER	4	
L9005-10	EXCCL3225U1	EMI FILTER	6	
L9200,01	EXCCL3225U1	EMI FILTER	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L9300	EXCCL3225U1	EMI FILTER	1	
L9350	ELJPA100KB	CHIP INDUCTOR	1	
L9450	EXCCL3225U1	EMI FILTER	1	
L9451	ELJPA150KF	CHIP INDUCTOR	1	
L9501	EXCCL3225U1	EMI FILTER	1	
L9502	G1C470M00012	INDUCTOR COIL	1	
L9550	G1C220M00029	INDUCTOR COIL	1	
L9551	EXCCL3225U1	EMI FILTER	1	
L9602	ELJFA1R0KF	CHIP COIL	1	
L9652	ELJFA1R0KF	CHIP COIL	1	
L9801	EXCCL3225U1	EMI FILTER	1	
L9802-09	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
L9812	EXCCL3225U1	EMI FILTER	1	
L9853	EXCCL3225U1	EMI FILTER	1	
LC3805	ELB4B578	LC FILTER	1	
LC9000-02	J0E3505B0002	LCR FILTER	3	
LC9003	ELKE103FA	NOISE FILTER	1	
LC9006	ELKE103FA	NOISE FILTER	1	
LC9300-02	ELKE103FA	NOISE FILTER	3	
LC9501,02	ELKE103FA	NOISE FILTER	2	
LC9504	ELKE103FA	NOISE FILTER	1	
LC9555	ELKE103FA	NOISE FILTER	1	
LC9852	ELKE103FA	NOISE FILTER	1	
P1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
P2	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
P3	K1KA10A00259	10P CONNECTOR	1	
P4	TJS1A8790	3P CONNECTOR	1	K1KA03A00213
P5	TJS1A8840	8P CONNECTOR	1	K1KA08A00221
P6	TJS1A8830	CONNECTOR	1	K1KA07A00056
P7	TJS1A8850	9P CONNECTOR	1	K1KA09A00099
P9	TJS158130	2P CONNECTOR	1	K1KA02A00244
P10-13	TJS3A9640	3P CONNECTOR	4	K1KA03A00171
P15A	TJS5A8850	13P CONNECTOR	1	K1KA13B00025
P15	TJS6A8600	13P CONNECTOR	1	
P16	K1KB08A00055	8P CONNECTOR	1	
P16A	TJS5A8160	CONNECTOR	1	K1KA08B00119
P18A	TJS5A8520	10P CONNECTOR	1	K1KA10B00095
P18	TJS6A8160	10P CONNECTOR	1	K1KA10A00212
P19A	TJS5A8830	11P CONNECTOR	1	K1KA11B00024
P19	TJS6A8580	11P CONNECTOR	1	K1KA11A00056
P21A	TJS5A8150	9P CONNECTOR	1	K1KA09B00020
P21	TJS6A8570	9P CONNECTOR	1	K1KB09A00027
P22A	TJS5A8160	CONNECTOR	1	K1KA08B00119
P22	TJS5A9420	8P CONNECTOR	1	K1KB08A00054
P24	TJS8A8570	CONNECTOR	1	K1KA02A00104
Q082	2SD601A	TRANSISTOR	1	2SD0601A
Q400,01	2SB1438	TRANSISTOR	2	
Q402,03	2SK1917	FET	2	
Q404,05	2SK3318000LB	FET	2	
Q406	2SC1384	TRANSISTOR	1	2SC13840W
Q407	2SA684	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q408	2SC1384	TRANSISTOR	1	2SC13840W
Q409	2SA684	TRANSISTOR	1	
Q410,11	2SC1384	TRANSISTOR	2	2SC13840W
Q412-15	2SK2197	FET	4	B1DAHQ000001
Q416	2SK2847	FET	1	B1DEFU000002
Q417,18	2SC3311A	TRANSISTOR	2	2SC3311AW
Q419	2SD2177R	TRANSISTOR	1	
Q423,24	2SK3318000LB	FET	2	
Q425	2SD2177R	TRANSISTOR	1	
Q426	2SK2197	FET	1	B1DAHQ000001
Q428,29	2SC3311A	TRANSISTOR	2	2SC3311AW
Q430	2SB621A	TRANSISTOR	1	2SB0621AW
Q431	2SC3311A	TRANSISTOR	1	2SC3311AW
Q500,01	2SC3311A	TRANSISTOR	2	2SC3311AW
Q600	2SC3311A	TRANSISTOR	1	2SC3311AW
Q601	2SA1309A	TRANSISTOR	1	2SA13090WA
Q602	2SC3311A	TRANSISTOR	1	2SC3311AW
Q635	2SC1473A	TRANSISTOR	1	2SC1473AE
Q636	2SC3311A	TRANSISTOR	1	2SC3311AW
Q650-52	2SC3311A	TRANSISTOR	3	2SC3311AW
Q730	2SB1030A	TRANSISTOR	1	
Q750	2SC3311A	TRANSISTOR	1	2SC3311AW
Q751	2SA1309A	TRANSISTOR	1	2SA13090WA
Q775	2SC3311A	TRANSISTOR	1	2SC3311AW
Q776	2SA1309A	TRANSISTOR	1	2SA13090WA
Q2301-03	2SD601A	TRANSISTOR	3	2SD0601A
Q2305,06	2SD601A	TRANSISTOR	2	2SD0601A
Q2406	2SD601A	TRANSISTOR	1	2SD0601A
Q2408	2SD601A	TRANSISTOR	1	2SD0601A
Q2410	2SD601A	TRANSISTOR	1	2SD0601A
Q3013,14	2SD601A	TRANSISTOR	2	2SD0601A
Q3085,86	2SB709A	TRANSISTOR	2	2SB0709A
Q3301-09	2SD601A	TRANSISTOR	9	2SD0601A
Q3351,52	2SD601A	TRANSISTOR	2	2SD0601A
Q3353	2SB709A	TRANSISTOR	1	2SB0709A
Q3354-58	2SD601A	TRANSISTOR	5	2SD0601A
Q3359	2SB709A	TRANSISTOR	1	2SB0709A
Q3501-03	2SD601A	TRANSISTOR	3	2SD0601A
Q3507	2SB709A	TRANSISTOR	1	2SB0709A (HY)(HZ)
Q3507	2SD601A	TRANSISTOR	1	2SD0601A (HX)
Q3508	2SB709A	TRANSISTOR	1	2SB0709A (HY)(HZ)
Q3508	2SD601A	TRANSISTOR	1	2SD0601A (HX)
Q3509	2SB709A	TRANSISTOR	1	2SB0709A (HY)(HZ)
Q3509	2SD601A	TRANSISTOR	1	2SD0601A (HX)
Q3513	2SD601A	TRANSISTOR	1	2SD0601A
Q3514	2SB709A	TRANSISTOR	1	2SB0709A
Q3515	2SD601A	TRANSISTOR	1	2SD0601A
Q3516	2SB709A	TRANSISTOR	1	2SB0709A
Q3531,32	2SD601A	TRANSISTOR	2	2SD0601A
Q3801,02	2SB709A	TRANSISTOR	2	2SB0709A
Q3803,04	2SD601A	TRANSISTOR	2	2SD0601A
Q3805-07	2SB709A	TRANSISTOR	3	2SB0709A
Q3808	2SD601A	TRANSISTOR	1	2SD0601A
Q3809	2SK198R	FET	1	2SK01980R


Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q3810	2SD601A	TRANSISTOR	1	2SD0601A
Q3812,13	2SB709A	TRANSISTOR	2	2SB0709A
Q3815	2SB709A	TRANSISTOR	1	2SB0709A
Q3817	2SB709A	TRANSISTOR	1	2SB0709A
Q6451	B1BBCJ000003	TRANSISTOR	1	
Q6452	2SB709A	TRANSISTOR	1	2SB0709A
Q6453	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6454	2SD814A	TRANSISTOR	1	
Q6471	B1BBCJ000003	TRANSISTOR	1	
Q6472	2SB709A	TRANSISTOR	1	2SB0709A
Q6474	2SD814A	TRANSISTOR	1	
Q6476,77	2SD601A	TRANSISTOR	2	2SD0601A
Q6491,92	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6511,12	B1DFGL000005	TRANSISTOR	2	
Q6520	2SD601A	TRANSISTOR	1	2SD0601A
Q6521	FS7VS14AT11	FET	1	
Q6523	2SB1073001TV	TRANSISTOR	1	
Q6524,25	2SD2185	TRANSISTOR	2	
Q6526	2SB1073001TV	TRANSISTOR	1	
Q6530-49	2SK2993	FET	20	
Q6550	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6551	2SD601A	TRANSISTOR	1	2SD0601A
Q6552	FS7VS14AT11	FET	1	
Q6561	2SB1073001TV	TRANSISTOR	1	
Q6562-64	FS7VS14AT11	FET	3	
Q6581	2SD601A	TRANSISTOR	1	2SD0601A
Q6601-10	B1DEHM000002	TRANSISTOR	10	
Q6611	2SD2185	TRANSISTOR	1	
Q6612	2SB1073001TV	TRANSISTOR	1	
Q6613	2SD2185	TRANSISTOR	1	
Q6614	2SB1073001TV	TRANSISTOR	1	
Q6621-26	B1DEHM000002	TRANSISTOR	6	
Q6627	2SD2185	TRANSISTOR	1	
Q6628	2SB1073001TV	TRANSISTOR	1	
Q6629	2SD2185	TRANSISTOR	1	
Q6630	2SB1073001TV	TRANSISTOR	1	
Q6641,42	B1DFHM000002	TRANSISTOR	2	
Q6645	2SD2185	TRANSISTOR	1	
Q6646	2SB1073001TV	TRANSISTOR	1	
Q6671	2SB940A	TRANSISTOR	1	2SB0940AJ
Q6672	2SD1263A	TRANSISTOR	1	
Q6673	2SC1473A	TRANSISTOR	1	2SC1473AE
Q6711-26	B1DEHM000002	TRANSISTOR	16	
Q6727,28	B1DFHM000002	TRANSISTOR	2	
Q6731	2SD1263A	TRANSISTOR	1	
Q6732	2SD2185	TRANSISTOR	1	
Q6733	2SB1073001TV	TRANSISTOR	1	
Q6734	2SD2185	TRANSISTOR	1	
Q6735	2SB1073001TV	TRANSISTOR	1	
Q6736	2SD2185	TRANSISTOR	1	
Q6737	2SB1073001TV	TRANSISTOR	1	
Q6738,39	2SC1473A	TRANSISTOR	2	2SC1473AE
Q6741	2SD601A	TRANSISTOR	1	2SD0601A
Q6742	2SD2185	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q6743	2SB1073001TV	TRANSISTOR	1	
Q6744	2SD2185	TRANSISTOR	1	
Q6745	2SB1073001TV	TRANSISTOR	1	
Q7151,52	2SK326900L	FET	2	
Q7158	2SK326900L	FET	1	
Q7160	2SK326900L	FET	1	
Q7401,02	2SB709A	TRANSISTOR	2	2SB0709A
Q8021	2SD601A	TRANSISTOR	1	2SD0601A
Q9350	2SK620	FET	1	2SK0620
Q9500,02	2SD601A	TRANSISTOR	2	2SD0601A
Q9501,02	2SK620	FET	2	2SK0620
Q9504	2SK620	FET	1	2SK0620
Q9702,03	2SD601A	TRANSISTOR	2	2SD0601A
Q9801	2SD601A	TRANSISTOR	1	2SD0601A
Q9904	2SD601A	TRANSISTOR	1	2SD0601A
R081	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R082	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R083	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R084	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R087	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R088	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R400,01	TARAFR06R8JC	F 6.8 OHM, J, 7W	2	
R404,05	TARAFR06R8JC	F 6.8 OHM, J, 7W	2	
R406,07	ERDS1FJ824	C 820KOHM, J,1/2W	2	
R408	ER0S2CKF1823	M 182KOHM, F,1/4W	1	EROS2CKF1823
R409	ER0S2CKF1503	M 150KOHM, F,1/4W	1	
R410	ERG3FJS333D	M 33KOHM, J, 3W	1	
R411,12	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R413	ERG1FJS220D	M 22 OHM, J, 1W	1	
R414,15	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R416	ERG2FJS820D	M 82 OHM, J, 2W	1	
R417	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R418	ERU5TAJ150	F 15 OHM, 5W	1	 ;
R419,20	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R421,22	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R423,24	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R425	ERF5EKR10	W 0.1 OHM, 5W	1	
R426	ERF5EKR15	W0.15 OHM, 5W	1	
R427,28	ERG3FJS471D	M 470 OHM, J, 3W	2	
R429	ER0S2CKF1823	M 182KOHM, F,1/4W	1	EROS2CKF1823
R430	ER0S2CKF1623	M 162KOHM, F,1/4W	1	
R432	ERG3FJS333D	M 33KOHM, J, 3W	1	
R433	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	ERDS1FJ472T
R434,35	ERDS1FJ101	C 100 OHM, J,1/2W	2	
R436,37	ERDS1FJ220	C 22 OHM, J,1/2W	2	
R438	ER0S2CKF1823	M 182KOHM, F,1/4W	1	EROS2CKF1823
R439	ER0S2CKF1623	M 162KOHM, F,1/4W	1	
R440	ERX3FJSR47D	M0.47 OHM, J, 3W	1	
R441,42	ERDS1FJ222	C 2.2KOHM, J,1/2W	2	
R443,44	ERDS1FJ100	C 10 OHM, J,1/2W	2	
R445	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R446	ERDS1FJ472	C 4.7KOHM, J,1/2W	1	ERDS1FJ472T

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R447,48	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R449,50	ERG5FJ473H	M 47KOHM, J, 5W	2	
R451	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R452	ERG3FJS473D	M 47KOHM, J, 3W	1	
R453	ERG1FJS104D	M 100KOHM, J, 1W	1	
R454	ERG3FJS473D	M 47KOHM, J, 3W	1	
R456,57	ERDS1FJ103	C 10KOHM, J,1/2W	2	
R458	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R459	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R460	ERDS2TJ6R8	C 6.8 OHM, J,1/4W	1	
R461	ERX2FJSR22D	M0.22 OHM, J, 2W	1	
R462	ERF5EKR10	W 0.1 OHM, 5W	1	
R463	ERF5EKR15	W0.15 OHM, 5W	1	
R465	ERDS2TJ6R8	C 6.8 OHM, J,1/4W	1	
R466	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R467	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R469	ERG1FJS220D	M 22 OHM, J, 1W	1	
R470	ERDS1FJ221	C 220 OHM, J,1/2W	1	
R471	ERDS1FJ391	C 390 OHM, J,1/2W	1	
R472	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R474,75	ERDS2TJ104	C 100KOHM, J,1/4W	2	
R476	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R478	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R479,80	ERX12SJ4R7	M 4.7 OHM, J,1/2W	2	
R481	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R482	ERG2FJS183D	M 18KOHM, J, 2W	1	
R484	ERG2FJS183D	M 18KOHM, J, 2W	1	
R485	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	EXCEPT UY/UZ VERSION
R486,87	ERDS2TJ223	C 22KOHM, J,1/4W	2	EXCEPT UY/UZ VERSION
R488	ERDS2TJ331	C 330 OHM, J,1/4W	1	EXCEPT UY/UZ VERSION
R489	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R490,91	ERDS2TJ473	C 47KOHM, J,1/4W	2	EXCEPT UY/UZ VERSION
R492	ERDS2TJ223	C 22KOHM, J,1/4W	1	
R493	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R495	ERDS1FJ471	C 470 OHM, J,1/2W	1	
R496	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R499	ERDS2TC0	C 0 OHM, 1/4W	1	EXCEPT UY/UZ VERSION
R500	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R501	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R502	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R503	ERDS2TJ220	C 22 OHM, J,1/4W	1	
R505	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R506	ERDS1FJ220	C 22 OHM, J,1/2W	1	
R507	ER0S2CKF6802	M 68KOHM, F,1/4W	1	
R508	ER0S2CKF3301	M 3.3KOHM, F,1/4W	1	
R510	ER0S2CKF2551	M2.55KOHM, F,1/4W	1	EROS2CKF2551
R511,12	ERDS2TJ103	C 10KOHM, J,1/4W	2	
R516-19	ERDS2TJ223	C 22KOHM, J,1/4W	4	
R521-23	ERX2FJS1R5D	M 1.5 OHM, J, 2W	3	
R528	ERDS2TC0	C 0 OHM, 1/4W	1	
R530	ERDS2TJ222	C 2.2KOHM, J,1/4W	1	
R531	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R534	ERDS2TJ153	C 15KOHM, J,1/4W	1	
R535	ERDS2TJ152	C 1.5KOHM, J,1/4W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R537	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R538	ERDS2TJ151	C 150 OHM, J,1/4W	1	
R539	ERG3FJS470D	M 47 OHM, J, 3W	1	
R540	ERDS2TJ682	C 6.8KOHM, J,1/4W	1	
R541	ERDS2TJ102	C 1KOHM, J,1/4W	1	
R542	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R543	ER0S2CKF3651	M3.65KOHM, F,1/4W	1	EROS2CKF3651
R544	ER0S2CKF3830	M 383 OHM, F,1/4W	1	
R545	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R546	ER0S2CKF2551	M2.55KOHM, F,1/4W	1	EROS2CKF2551
R548	EVMEASA00B24	CONTROL 20KOHMB 0.3W	1	
R557	ERDS2TJ104	C 100KOHM, J,1/4W	1	
R558	ERDS2TJ470	C 47 OHM, J,1/4W	1	
R559	ERDS2TJ472	C 4.7KOHM, J,1/4W	1	
R560	ERDS2TJ561	C 560 OHM, J,1/4W	1	
R561	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R562	ERDS2TJ103	C 10KOHM, J,1/4W	1	
R563	ERDS2TJ473	C 47KOHM, J,1/4W	1	
R564-66	ERG3FJS823D	M 82KOHM, J, 3W	3	
R567,68	ERG2FJS471D	M 470 OHM, J, 2W	2	
R569	ER0S2CKF3651	M3.65KOHM, F,1/4W	1	EROS2CKF3651
R571,72	ERQ14AJ100	F 10 OHM, J,1/4W	2	
R573	ERQ14AJ221P	F 220 OHM, J,1/4W	1	
R584,85	ERG3FJS473D	M 47KOHM, J, 3W	2	
R586,87	ERX3FJS1R0D	M 1 OHM, J, 3W	2	
R600	ERJ6GEYJ823	M 82KOHM,J,1/10W	1	
R601	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R602	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R603,04	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R605	ERG12SJ101P	M 100 OHM, J,1/2W	1	
R606,07	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R608	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R609	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R610	ERJ6GEYJ823	M 82KOHM,J,1/10W	1	
R611	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R612	ERG12SJ101P	M 100 OHM, J,1/2W	1	
R613	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R614	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R616	ERJ6ENF1102	M 11KOHM, 1/10W	1	ERJ6ENF1102V
R617	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R618	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R619	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R620	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R621	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R622	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R623	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R630	ERD25FJ102	C 1KOHM, J,1/4W	1	
R632	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R634	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R635	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R636	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	1	
R638	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R639	EVMEGSA00B54	CONTROL 50KOHMB	1	
R640	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R641	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R642	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R644	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R645-47	ERJ6ENF6802	M 68KOHM, 1/10W	3	
R648	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R649	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R650	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R651	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R652,53	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R654	ERG1FJS561D	M 560 OHM, J, 1W	1	
R655	ERD25FJ471	C 470 OHM, J,1/4W	1	
R656	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R657	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R658	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R659	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R661	ERD25FJ822	C 8.2KOHM, J,1/4W	1	
R662	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R663	ERX12SJ4R7	M 4.7 OHM, J,1/2W	1	
R664	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R665	ERDS1FJ100	C 10 OHM, J,1/2W	1	
R666	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R667	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R668	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R669	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R670	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R671	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R700	ERJ6GEYJ391	M 390 OHM,J,1/10W	1	
R701,02	ERJ6GEYJ680	M 68 OHM,J,1/10W	2	
R703	ERJ6GEYJ271	M 270 OHM,J,1/10W	1	
R704	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R705	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R706	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R707	ERJ6GEYJ155	M 1.5MOHM,J,1/10W	1	
R708	ERJ6GEYJ241	M 240 OHM,J,1/10W	1	
R709	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R710	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R711	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R712	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R713,14	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R715	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R716	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R717	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R718,19	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R720	ERD25FJ472	C 4.7KOHM, J,1/4W	1	
R721	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R722	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R723	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R724	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R725	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R726	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R728	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R750	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R751	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R752	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R753	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R754	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R755	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R756	ERJ6ENF1913	M19.1KOHM, 1/10W	1	
R758	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R759	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R760,61	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R762	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R763	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R764	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R765	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R766	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R767	ERJ6ENF2003	M 200KOHM, 1/10W	1	
R770	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R775	ERD25FJ183	C 18KOHM, J,1/4W	1	
R776	ERD25FJ223	C 22KOHM, J,1/4W	1	
R777	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R778	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R779-82	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R783	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R784	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R785,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R787	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R788	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R789	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R900,01	ERC12ZGK105	S 1MOHM, K,1/2W	2	
R1554,55	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R2301	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2304	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2305,06	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R2309	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2310	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R2319,20	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2321	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2322,23	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R2324,25	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R2326	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2327	ERJ6GEYJ752	M 7.5KOHM,J,1/10W	1	
R2328	ERJ6GEYJ683	M 68KOHM,J,1/10W	1	
R2329,30	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	2	
R2331	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2332	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2333	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R2334	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2335,36	ERJ6GEYJ123	M 12KOHM,J,1/10W	2	
R2337,38	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2341	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2343	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2346	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2347	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2348	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2349,50	ERJ6GEY0R00	M 0 OHM,J,1/10W	2	
R2408	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2431	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2434	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2438	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2439	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2440	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2441	ERJ6GEYJ123	M 12KOHM,J,1/10W	1	
R2445	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R2448	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2450	ERJ6GEYJ563	M 56KOHM,J,1/10W	1	
R2452	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R2453	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2456	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2457	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2460	ERJ6ENF1802	M 18KOHM, 1/10W	1	
R2461,62	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R2463	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R2464	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2467	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R2468	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2469	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R2470	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2471	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2472	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2473	ERJ6GEYJ182	M 1.8KOHM,J,1/10W	1	
R2476,77	ERJ6GEYJ220	M 22 OHM,J,1/10W	2	
R2480	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2481,82	ERJ6GEYJ153	M 15KOHM,J,1/10W	2	
R2483	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2484	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R2485	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3001-04	ERJ3GEYJ560	M 56 OHM,J,1/16W	4	
R3007	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R3009-15	ERJ3GEYJ560	M 56 OHM,J,1/16W	7	
R3016-21	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R3022,23	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3024-29	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R3030,31	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R3032,33	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R3034	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3035	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3036	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3037	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3038	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3039-43	TAJAAH0101JV	M 100 OHM,J,1/16W	5	D0GB101JA006
R3045	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3046	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3047	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3078	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3079	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3087,88	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3101-08	ERJ3GEYJ334	M 330KOHM,J,1/16W	8	D0GB334JA002
R3109	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R3301,02	ERJ6ENF75R0	M 75 OHM, 1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3303	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3304,05	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R3306	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3307	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R3308	ERJ6GEYJ184	M 180KOHM,J,1/10W	1	
R3309	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3310	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3311	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3312	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R3313	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3314	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R3315	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3316-18	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3319-21	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R3322	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3323	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R3324	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3325-27	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3328-31	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R3332,33	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R3334	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3335	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3336	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3337	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R3338,39	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R3340	ERJ6ENF9310	M 931 OHM, 1/10W	1	
R3341	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3342	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R3343	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R3344	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3345	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3346-48	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3349,50	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R3351,52	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3353-55	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3356,57	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R3358-61	TAJAAH0101JV	M 100 OHM,J,1/16W	4	D0GB101JA006
R3362,63	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3364	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3365	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3366,67	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3368	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3369-72	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R3373,74	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3375-77	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3378,79	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	ERJ3GEYJ3R3V
R3380-82	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R3383-85	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3386,87	ERJ3GEYJ104	M 100KOHM,J,1/16W	2	
R3388	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3389,90	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R3391	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3392	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3393,94	ERJ3GEYJ3R3	M 3.3 OHM,J,1/16W	2	ERJ3GEYJ3R3V

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3395	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3396	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3400	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3501-03	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R3504	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R3505	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3506	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R3507	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3508	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	(HY)(HZ)
R3508	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(HX)
R3509	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	(HY)(HZ)
R3509	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	(HX)
R3510,11	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	(HX)
R3511	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006 (HY)(HZ)
R3513,14	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R3516,17	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3518-22	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R3526-28	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R3529,30	ERJ6GEYJ184	M 180KOHM,J,1/10W	2	
R3532-34	ERJ6GEY0R00	M 0 OHM,J,1/10W	3	
R3535,36	ERJ6GEYJ331	M 330 OHM,J,1/10W	2	
R3537	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	(HX)
R3537	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	(HY)(HZ)
R3538	ERJ6ENF75R0	M 75 OHM, 1/10W	1	(HY)(HZ)
R3538	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	(HX)
R3539,02	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R3540	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3541	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3547	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3548	ERJ6ENF7500	M 750 OHM, 1/10W	1	(HY)(HZ)
R3548	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	(HX)
R3549,50	ERJ6ENF1001	M 1KOHM, 1/10W	2	
R3577	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3578	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3579	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3580	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3581	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3582	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3585,86	ERJ6GEYJ560	M 56 OHM,J,1/10W	2	
R3589	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3590	ERJ6GEYJ560	M 56 OHM,J,1/10W	1	
R3595-97	ERJ6GEYJ102	M 1KOHM,J,1/10W	3	
R3599	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3603,04	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3611-14	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	4	
R3626-29	ERJ6GEYJ3R3	M 3.3KOHM,J,1/10W	4	
R3653	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3654	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3655	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R3656	ERJ6GEYJ333	M 33KOHM,J,1/10W	1	
R3663,64	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R3668	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3672	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3755,56	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3764-66	ERJ6GEYJ101	M 100 OHM,J,1/10W	3	
R3776,77	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R3778	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3801,02	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R3803,04	ERJ6GEYJ561	M 560 OHM,J,1/10W	2	
R3805	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3806	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3808	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3809	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3810	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R3811	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R3812	ERJ6ENF3300	M 330 OHM, 1/10W	1	
R3813	ERJ6ENF6801	M 6.8KOHM, 1/10W	1	
R3814	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R3815	ERJ6ENF2200	M 220 OHM, 1/10W	1	
R3816	ERJ6GEYJ331	M 330 OHM,J,1/10W	1	
R3817	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3818	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3819	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3820	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R3821	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R3822	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R3823	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3824	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3825	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3826	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R3827	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3828	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R3829	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3830,31	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R3832	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R3833	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3834	ERJ6ENF47R0	M 47 OHM, 1/10W	1	
R3835	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3836	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3837-40	EXB38V471J	RESISTOR ARRAY	4	
R3841	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3842	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R3843	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3845	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3846	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3848	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R3849	ERJ6ENF3000	M 300 OHM, 1/10W	1	
R3850	ERJ6ENF1500	M 150 OHM, 1/10W	1	
R3851	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3852	ERJ6ENF4701	M 4.7KOHM, 1/10W	1	
R3853	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R3854	ERJ6ENF2400	M 240 OHM, 1/10W	1	
R3855	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R3856	ERJ6ENF2400	M 240 OHM, 1/10W	1	
R3857	ERJ6ENF2701	M 2.7KOHM, 1/10W	1	
R3858	ERJ6ENF2400	M 240 OHM, 1/10W	1	
R3859	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R3860	ERJ3GEYJ391	M 390 OHM,J,1/16W	1	D0GB391JA002

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R3861	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R3862	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R3863,64	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R3865	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R3866	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R3867-69	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R3870	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R3871	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R3872	TAJAAH0680JV	M 68 OHM,J,1/16W	1	D0GB680JA006
R3873	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R3874	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3875,76	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	2	
R3877	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R3879	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R3881	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R3884-86	TAJAAH0820JV	M 82 OHM,J,1/16W	3	D0GB820JA006
R3887	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R3888	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3890	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R3891	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R3892	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R3893	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R3894	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3895	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R3896	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R4521	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R4551	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R4552	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R4601	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R4604	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R6401-06	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6407,08	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6409	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6410	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6411	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6412	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6421-26	ERJ6GEYJ221	M 220 OHM,J,1/10W	6	
R6427-30	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6431,32	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6453	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6454	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6455	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6456	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R6457,58	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R6459,60	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6461	ERJ6ENF1003	M 100KOHM, 1/10W	1	
R6462	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R6463	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6464	ERG2FJS273D	M 27KOHM, J, 2W	1	
R6465	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R6466	ERJ14YJ101	M 100 OHM, J,1/4W	1	
R6467,68	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6469	ERG3FJS123D	M 12KOHM, J, 3W	1	
R6470	ERJ6GEYJ273	M 27KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6471	ERG3FJS123D	M 12KOHM, J, 3W	1	
R6473	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6474	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6475	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6476	ERJ6GEYJ274	M 270KOHM,J,1/10W	1	
R6477	EVMEASA00B14	CONTROL 100KOHMB/0.3W	1	EVM38GA00B14
R6478	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6479,80	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6482	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6483	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6484	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6485,86	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6487	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6488	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6489	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6492,93	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6494,95	ERJ6ENF5231	M5.23KOHM, 1/10W	2	
R6497	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6498,99	ERX1FJS8R2D	M 8.2 OHM, J, 1W	2	
R6500-02	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	3	
R6503,04	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6505,06	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6507,08	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6509	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	1	
R6510	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6511,12	ERX2FJS2R2D	M 2.2 OHM, J, 2W	2	
R6513	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6514	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6515	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6516	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6517	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6518	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6519	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6520	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6521	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6522	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6524	ERJ6ENF2201	M 2.2KOHM, 1/10W	1	
R6525	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6526	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6527,28	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R6529	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6530-39	ERJ6GEYJ470	M 47 OHM,J,1/10W	10	
R6540-49	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	10	
R6550	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6551,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6553	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R6554,55	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6556	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6557	EVMEASA00B14	CONTROL 100KOHMB/0.3W	1	EVM38GA00B14
R6558	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6559	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6560,61	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6562-64	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6565	ERG1FJS332D	M 3.3KOHM, J, 1W	1	
R6566-68	ERJ6ENF1003	M 100KOHM, 1/10W	3	
R6569	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6571-78	ERJ6GEYJ471	M 470 OHM,J,1/10W	8	
R6580,81	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6582,83	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6584	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6585,86	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6587	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6588	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6589	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590,91	ERJ6GEYJ471	M 470 OHM,J,1/10W	2	
R6592,93	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6594	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6595,96	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6598	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6600	ERD25V0R00	C 0 OHM, 1/4W	1	
R6601	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6602	ERJ6ENF1961	M1.96KOHM, 1/10W	1	
R6603	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6604	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6605-07	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6608	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6609	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6611-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6619-24	ERJ6GEYJ470	M 47 OHM,J,1/10W	6	
R6625	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6626	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6627	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6628	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6629,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6631-38	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6639	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6640	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6641,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6643-46	ERJ6GEYJ100	M 10 OHM,J,1/10W	4	
R6651-59	ERJ12YJ2R2	M 2.2 OHM, J, 1/2W	9	
R6660-63	ERJ12YJ1R0	M 1 OHM, J, 1/2W	4	
R6664-66	ERJ12YJ2R2	M 2.2 OHM, J, 1/2W	3	
R6667,68	ERJ12YJ1R0	M 1 OHM, J, 1/2W	2	
R6669	ERG2FJS103D	M 10KOHM, J, 2W	1	
R6670	EVMEASA00B14	CONTROL 100KOHMB/0.3W	1	EVM38GA00B14
R6671	ERG2FJS820D	M 82 OHM, J, 2W	1	
R6672	ERX1FJS8R2D	M 8.2 OHM, J, 1W	1	
R6673	ERG1FJS103D	M 10KOHM, J, 1W	1	
R6674	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6675	ERG2FJS223D	M 22KOHM, J, 2W	1	
R6676	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6677	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
R6678	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6679	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6681	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6682,83	ERJ6GEYJ470	M 47 OHM,J,1/10W	2	
R6684	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6685,86	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6687,88	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6691	EXB38V471J	RESISTOR ARRAY	1	
R6692	EXB38V473J	RESISTOR ARRAY	1	
R6693	EXB38V471J	RESISTOR ARRAY	1	
R6694	EXB38V473J	RESISTOR ARRAY	1	
R6695	EXB38V471J	RESISTOR ARRAY	1	
R6696	EXB38V473J	RESISTOR ARRAY	1	
R6697	EXB38V471J	RESISTOR ARRAY	1	
R6698	EXB38V473J	RESISTOR ARRAY	1	
R6700	ERD25V0R00	C 0 OHM, 1/4W	1	
R6701-03	ERX2FJSR22D	M0.22 OHM, J, 2W	3	
R6704	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6705	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6706	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6707	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6708	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6709	ERG2FJS103D	M 10KOHM, J, 2W	1	
R6711-18	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6719-24	ERJ6GEYJ470	M 47 OHM,J,1/10W	6	
R6725	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6726	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6727	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6728	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6729,30	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6731-38	ERJ6GEYJ100	M 10 OHM,J,1/10W	8	
R6740	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6741,42	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6743-46	ERJ6GEYJ100	M 10 OHM,J,1/10W	4	
R6751,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6753	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6754	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6759	ERG2FJS101D	M 100 OHM, J, 2W	1	
R6760	ERG1FJS472D	M 4.7KOHM, J, 1W	1	
R6761	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6762	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6763	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6764	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6765,66	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6767	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6770	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
R6772	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6775	ERJ6GEYJ224	M 220KOHM,J,1/10W	1	
R6776	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6777,78	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6779	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6780,81	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6783	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6784	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6785	EXB38V471J	RESISTOR ARRAY	1	
R6786	EXB38V473J	RESISTOR ARRAY	1	
R6787	EXB38V471J	RESISTOR ARRAY	1	
R6788	EXB38V473J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6789,90	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6791-99	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	9	
R6800-07	ERJ12YJ1R0	M 1 OHM, J,1/2W	8	
R6808-10	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	3	
R6811-14	ERJ12YJ1R0	M 1 OHM, J,1/2W	4	
R6815	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6816	ERJ6ENF1961	M1.96KOHM, 1/10W	1	
R6817,18	ERX2FJSR22D	M0.22 OHM, J, 2W	2	
R6819,20	ERJ12Y0R00	M 0 OHM,J, 1/2W	2	ERJ12Y0R00H
R7101-16	TAJAAH0680JV	M 68 OHM,J,1/16W	16	D0GB680JA006
R7117	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7120	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7121-28	TAJAAH0680JV	M 68 OHM,J,1/16W	8	D0GB680JA006
R7155-58	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7160	ERJ6ENF3832	M38.3KOHM, 1/10W	1	
R7161	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R7162	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7163,64	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7165	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R7166	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R7167	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7168-71	ERJ6GEYJ471	M 470 OHM,J,1/10W	4	
R7172	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7173	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7174	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R7175	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7176	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7177,78	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R7184	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7186	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R7187	ERJ6ENF7682	M76.8KOHM, 1/10W	1	
R7188	ERJ6ENF7681	M7.68KOHM, 1/10W	1	
R7189	ERJ6ENF4871	M4.87KOHM, 1/10W	1	
R7190	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7201-14	TAJAAH0680JV	M 68 OHM,J,1/16W	14	D0GB680JA006
R7218-21	TAJAAH0680JV	M 68 OHM,J,1/16W	4	D0GB680JA006
R7249-52	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7301-16	TAJAAH0680JV	M 68 OHM,J,1/16W	16	D0GB680JA006
R7317	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7320	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7321-28	TAJAAH0680JV	M 68 OHM,J,1/16W	8	D0GB680JA006
R7355-58	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7401-24	TAJAAH0680JV	M 68 OHM,J,1/16W	24	D0GB680JA006
R7455-58	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7491	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7492	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7493-96	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R7501-18	TAJAAH0680JV	M 68 OHM,J,1/16W	18	D0GB680JA006
R7549-52	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7601-24	TAJAAH0680JV	M 68 OHM,J,1/16W	24	D0GB680JA006
R7655-58	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R7691	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7692	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R8002	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8003	ERJ3GEYJ153	M 15KOHM,J,1/16W	1	
R8004	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8006,07	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R8008	ERJ3GEYJ271	M 270 OHM,J,1/16W	1	
R8009	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R8010	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R8011	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R8012	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R8013	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R8015	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R8017-19	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R8023,24	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R8025	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R8026	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R8027	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R8028-30	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	3	
R8033	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R8035	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R8036	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9000	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R9008	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R9010	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R9018-20	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9034	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9035	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9036	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9037	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9038	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9039	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9040	ERJ6ENF5111	M5.11KOHM, 1/10W	1	
R9041	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R9045	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9046	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9047	ERJ6ENF1051	M1.05KOHM, 1/10W	1	
R9048	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9049	ERJ6ENF1051	M1.05KOHM, 1/10W	1	
R9050,51	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9052	ERJ6ENF1051	M1.05KOHM, 1/10W	1	
R9053	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9058	ERJ6ENF3241	M3.24KOHM, 1/10W	1	
R9059	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R9060	ERJ6ENF3241	M3.24KOHM, 1/10W	1	
R9061	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R9063	ERJ6ENF3241	M3.24KOHM, 1/10W	1	
R9064	ERJ6ENF1000	M 100 OHM, 1/10W	1	
R9065	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9068-70	ERJ6ENF2701	M 2.7KOHM, 1/10W	3	
R9071-73	ERJ6ENF1800	M 180 OHM, 1/10W	3	
R9076	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9077	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9078	ERJ6ENF1800	M 180 OHM, 1/10W	1	
R9080,81	ERJ6ENF1800	M 180 OHM, 1/10W	2	
R9082	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9102,03	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9104	TAJAAH0680JV	M 68 OHM,J,1/16W	1	D0GB680JA006
R9105,06	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9107-10	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9113	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9115	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9121-29	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9200,01	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9204,05	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9207,08	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9210	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9211,12	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9224	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9228	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9229	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9239,40	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9241	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9242,43	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9244	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9245	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9246	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9247,48	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9249	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9253	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9254	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9257	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9259	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9261	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9262,63	ERJ3GEYJ330	M 33 OHM,J,1/16W	2	
R9264-70	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9271	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9274	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9275	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9285	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9286,87	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9288,89	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	2	
R9290	ERJ3GEYJ122	M 1.2KOHM,J,1/16W	1	
R9291	ERJ3GEYJ331	M 330 OHM,J,1/16W	1	
R9293	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9300	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9301-05	TAJAAH0101JV	M 100 OHM,J,1/16W	5	D0GB101JA006
R9306,07	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9308	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9309	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9350	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9351	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9352,53	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9354	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9355,56	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9357	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9358	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9359	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9360,61	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	2	
R9362-64	ERJ3GEYJ102	M 1KOHM,J,1/16W	3	
R9365	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9366-68	TAJAAH0101JV	M 100 OHM,J,1/16W	3	D0GB101JA006
R9369	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9371	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9372-75	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	4	
R9376	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9377	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9378	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9379	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9380	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9381	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9382	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9383-86	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9387-90	ERJ3GEYJ560	M 56 OHM,J,1/16W	4	
R9391	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9392	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9393	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9394-00	ERJ3GEYJ102	M 1KOHM,J,1/16W	7	D0GB101JA006
R9401,02	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9403	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9404-06	TAJAAH0101JV	M 100 OHM,J,1/16W	3	
R9407,08	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9409	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9410	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9411	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9413	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9414	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9416	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9417	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9418	ERJ3GEYJ152	M 1.5KOHM,J,1/16W	1	
R9419	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R9420	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	D0GB101JA006
R9421	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9425	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9426	TAJAAH0101JV	M 100 OHM,J,1/16W	1	
R9427	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9429	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9432	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9434,35	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9436-39	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R9440,41	TAJAAH0101JV	M 100 OHM,J,1/16W	2	
R9442-49	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
R9454-58	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9459	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9460,61	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9464	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	D0GB101JA006
R9466	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9467	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9469	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9470	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9472,73	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9475	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9478	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9501-06	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R9525,26	ERJ8RSJR10V	M 1 OHM, 1/8W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9537	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9538-46	ERJ3GEY0R00	M 0 OHM, 1/16W	9	
R9548,49	ERJ8RSJR10V	M 1 OHM, 1/8W	2	
R9557	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9560	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9565	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9566	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R9567	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9569	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9570,71	EXB38V680J	RESISTOR ARRAY	2	
R9572	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9573-78	EXB38V680J	RESISTOR ARRAY	6	
R9579	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9581	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9582-85	EXB38V680J	RESISTOR ARRAY	4	
R9586	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9589	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9591-93	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9595-97	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R9598	ERJ6ENF1301	M 1.3KOHM, 1/10W	1	
R9599	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9600	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9601	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9607,08	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9610-13	ERJ3GEYJ100	M 10 OHM,J,1/16W	4	
R9619	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9621	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9622	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9635-38	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R9639,40	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9644,45	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9649	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9650	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9651	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9652	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9653	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9655	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9656	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9663,64	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9667-72	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R9673-76	ERJ6ENF1001	M 1KOHM, 1/10W	4	
R9677-82	ERJ3GEYJ100	M 10 OHM,J,1/16W	6	
R9691	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9692	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9693	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R9695	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9697	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9698	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9700	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9701,02	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9704	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9705	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9711	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9712	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9713-19	ERJ3GEY0R00	M 0 OHM, 1/16W	7	
R9720	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9721	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9722	ERJ3GEYJ561	M 560 OHM,J,1/16W	1	
R9724	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9725	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9726	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9727	EXB38V103J	RESISTOR ARRAY	1	
R9729	EXB38V103J	RESISTOR ARRAY	1	
R9730	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9731	EXB38V103J	RESISTOR ARRAY	1	
R9732,33	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9734	EXB38V103J	RESISTOR ARRAY	1	
R9735	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9737	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9738	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9739	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9741	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9742	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9745,46	EXB38V103J	RESISTOR ARRAY	2	
R9747	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9748	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9751	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9753-57	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R9758-62	ERJ3GEYJ151	M 150 OHM,J,1/16W	5	
R9764-71	ERJ3GEYJ151	M 150 OHM,J,1/16W	8	
R9773,74	ERJ3GEYJ151	M 150 OHM,J,1/16W	2	
R9775	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9776	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9777	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R9780-87	EXB38V103J	RESISTOR ARRAY	8	
R9797	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R9798	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9799	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9802	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9803	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9804	EXB38V470J	RESISTOR ARRAY	1	
R9806	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9807	EXB38V470J	RESISTOR ARRAY	1	
R9808,09	EXB38V680J	RESISTOR ARRAY	2	
R9810,11	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9813	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9814	EXB38V680J	RESISTOR ARRAY	1	
R9815	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9816	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9819,20	EXB38V680J	RESISTOR ARRAY	2	
R9821,22	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9823,24	EXB38V680J	RESISTOR ARRAY	2	
R9827	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9828	EXB38V680J	RESISTOR ARRAY	1	
R9829-33	ERJ3GEYJ103	M 10KOHM,J,1/16W	5	
R9834-38	EXB38V680J	RESISTOR ARRAY	5	
R9839-41	TAJAAH0470JV	M 47 OHM,J,1/16W	3	D0GB470JA006
R9842,43	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9844	EXB38V470J	RESISTOR ARRAY	1	
R9845	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9848	EXB38V680J	RESISTOR ARRAY	1	
R9849	EXB38V470J	RESISTOR ARRAY	1	
R9850-52	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9854-56	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9857	EXB38V470J	RESISTOR ARRAY	1	
R9858-60	ERJ3GEYJ151	M 150 OHM,J,1/16W	3	
R9869	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9872	EXB38V470J	RESISTOR ARRAY	1	
R9873	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9876	EXB38V470J	RESISTOR ARRAY	1	
R9877,78	EXB38V680J	RESISTOR ARRAY	2	
R9881,82	TAJAAH0470JV	M 47 OHM,J,1/16W	2	D0GB470JA006
R9884	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9885	EXB38V680J	RESISTOR ARRAY	1	
R9886	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9887	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9888-91	EXB38V680J	RESISTOR ARRAY	4	
R9894	EXB38V680J	RESISTOR ARRAY	1	
R9895	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9898	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9899	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9900-03	EXB38V680J	RESISTOR ARRAY	4	
R9905	EXB38V680J	RESISTOR ARRAY	1	
R9907-09	TAJAAH0470JV	M 47 OHM,J,1/16W	3	D0GB470JA006
R9910	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9911	EXB38V470J	RESISTOR ARRAY	1	
R9912	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9913	TAJAAH0470JV	M 47 OHM,J,1/16W	1	D0GB470JA006
R9914	EXB38V680J	RESISTOR ARRAY	1	
R9915	EXB38V470J	RESISTOR ARRAY	1	
R9916	EXB38V680J	RESISTOR ARRAY	1	
R9917	EXB38V470J	RESISTOR ARRAY	1	
R9918,19	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9921	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9922	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9923	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9924,25	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9926	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9928	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9930,31	ERJ3GEYJ560	M 56 OHM,J,1/16W	2	
R9932,33	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9934	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9935	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9936	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9938-40	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9941	EXB38V103J	RESISTOR ARRAY	1	
R9942	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9943	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9944,45	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9948	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9951	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9953	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9955	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9958	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9959-62	ERJ3GEYJ103	M 10KOHM,J,1/16W	4	
R9963	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9964	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9966	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9968	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9971	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9974	TAJAAH0101JV	M 100 OHM,J,1/16W	1	D0GB101JA006
R9975	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R9976,77	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
R9981	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9983	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9984	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9985	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9986	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R9987	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R9991	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9992	ERJ3GEYJ474	M 470KOHM,J,1/16W	1	
R9995	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9996	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9997	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9998,99	TAJAAH0101JV	M 100 OHM,J,1/16W	2	D0GB101JA006
RJ100	ERJ6GEY0R00	M 0 OHM,J,1/10W	1	
RL400	K6B1AGA00086	RELAY	1	
RL401	TSEH0025	RELAY	1	K6B2AGA00020
RM001	PNA4601M05TV	REMOCO RECEIVER	1	
RTL	TNPA2510	CIRCUIT BOARD C1	1	
RTL	TNPA2511	CIRCUIT BOARD C2	1	
RTL	TNPA2512	CIRCUIT BOARD C3	1	
RTL	TNPA2513	CIRCUIT BOARD C4	1	
RTL	TNPA2514AB	CIRCUIT BOARD C5	1	
RTL	TNPA2515	CIRCUIT BOARD C6	1	
RTL	TNPA2517	CIRCUIT BOARD SU	1	
RTL	TNPA2518	CIRCUIT BOARD SD	1	
RTL	TNPA2519	CIRCUIT BOARD SS2	1	
RTL	TNPA2520	CIRCUIT BOARD SS3	1	
RTL	TNPA2608	CIRCUIT BOARD C9	4	
RTL	TNPA2249	CIRCUIT BOARD H3	1	
RTL	TXN/F10MHS	CIRCUIT BOARD F	1	
RTL	TNPA2445	CIRCUIT BOARD Z	1	
RTL	TZTNP01MHSE	CIRCUIT BOARD D1	1	
RTL	TNPA2427AB	CIRCUIT BOARD D2	1	
RTL	TXNP11MHSE	CIRCUIT BOARD P1	1	EXCEPT UY/UZ VERSION

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
RTL	TXNP110MHS	CIRCUIT BOARD P1	1	UY/UZ VERSION ⚠
RTL	TNPA2566	CIRCUIT BOARD P3	1	⚠
RTL	TNPA2567	CIRCUIT BOARD P5	1	⚠
RTL	TNPA2568	CIRCUIT BOARD P6	1	⚠
RTL	TNPA2569	CIRCUIT BOARD P7	1	⚠
RTL	TNPA2570	CIRCUIT BOARD P8	1	⚠
RTL	TNPA2434AB	CIRCUIT BOARD SC	1	⚠
RTL	TXNSS10MHS	CIRCUIT BOARD SS	1	⚠
RTL	TNPA2283AC	CIRCUIT BOARD S1	1	⚠
RTL	TNPA2282AC	CIRCUIT BOARD V1	1	⚠
RTL	TZTNP02KESE	CIRCUIT BOARD HX	1	⚠
RTL	TXNHY30JHS	CIRCUIT BOARD HY	1	⚠
S061	TSE4GD0001	POWER SWITCH	1	K0F162B00002
S701	ESD11H220	SWITCH	1	
S1554-56	EVQPBD05R	SWITCH	3	
SC2	TJS3A9670	6P CONNECTOR	1	K1KA06A00179
SC4	TJS1A8790	3P CONNECTOR	1	K1KA03A00213
SC20	K1KA10A00266	10P CONNECTOR	1	
SC21	K1KA11A00078	11P CONNECTOR	1	
SC41-44	K1KB40B00015	40P CONNECTOR	4	
SD1-D4	K1KAA0A00089	CONNECTOR	4	
SS1	TJS3A9680	7P CONNECTOR	1	K1KA07A00095
SS3	K1KA10A00259	10P CONNECTOR	1	
SS11-16	K1KB26A00038	26P CONNECTOR	6	
SS21-24	TJSF41013	13P CONNECTOR	4	K1MN13B00020
SS25-27	K1KA26A00091	CONNECTOR	3	
SS31	TJSF41013	13P CONNECTOR	1	K1MN13B00020
SS32	TJS1A8880	12P TERMINAL	1	K1KA12A00176 (SS)
SS32,33	TJSF41013	13P CONNECTOR	2	K1MN13B00020 (SS3)
SS34	TJS1A8790	3P CONNECTOR	1	K1KA03A00213 (SS)
SS34	TJSF41013	13P CONNECTOR	1	K1MN13B00020 (SS3)
SS35	K1KA04A00242	4P CONNECTOR	1	(SS)
SS35-37	K1KA26A00091	CONNECTOR	3	(SS3)
SS42	K1KA04A00242	4P CONNECTOR	1	
SU1-U4	K1KAA0A00089	CONNECTOR	4	
T400	G4D4A0000035	SWITCHING TRANSFORMER	1	⚠
T401	G4D5A0000013	SWITCHING TRANSFORMER	1	⚠
T402	ETS25AD1C3AG	SWITCHING TRANSFORMER	1	⚠
T404,05	ETH19K191AM	H DRIVE TRANS	2	
T6451	G4D1A0000055	SWITCHING TRANSFORMER	1	
T6471	G4D1A0000055	SWITCHING TRANSFORMER	1	
V34	K1KA08B00005	8P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
X3801	H0J202500002	CRYSTAL	1	
X9200	H1A3305B0005	CRYSTAL	1	
X9350	TSSA120	CRYSTAL	1	H0J327200038
X9450	TSSA081	CRYSTAL	1	H0J245500024
X9451	TSS9038-B	CRYSTAL	1	H0J200500016
X9601	H1A5005B0015	CRYSTAL	1	
X9602	H1A6505B0004	CRYSTAL	1	
X9603	H1A6005B0008	CRYSTAL	1	
X9701	TSS9038-B	CRYSTAL	1	H0J200500016
X9901	H0J921400003	CRYSTAL	1	
Z3	TJS3A9640	3P CONNECTOR	1	K1KA03A00171
Z4	TJS3A9650	4P CONNECTOR	1	K1KA04A00194
Z6	TJS1A8830	CONNECTOR	1	K1KA07A00056
Z10	TJS1A8800	4P CONNECTOR	1	K1KA04A00242
Z17	TJS1A8840	8P CONNECTOR	1	K1KA08A00221

18. Schematic Diagram for printing with A4



14 Block and Schematic Diagrams

14.1. Schematic Diagram Notes

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are carbon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [W] (K=1,000, M=1,000,000).

\bigcirc : Nonflammable	\boxtimes : Metal Oxide
\triangle : Solid	\odot : Metal Film
\boxplus : Wire Wound	\otimes : Fuse:

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is μ F, unless otherwise noted.

\otimes : Temperature Compensation	$\begin{array}{c} + \\ \text{---} \text{H} \text{---} \end{array}$: Electrolytic
\textcircled{M} : Polyester	$\begin{array}{c} NP \\ \text{---} \text{H} \text{---} \end{array}$: Bipolar
\textcircled{m} : Metalized Polyester	\textcircled{T} : Dipped Tantalum
\boxtimes : Polypropylene	\textcircled{Z} : Z-Type

3. Coil

Unit of inductance is μ H, unless otherwise noted.

4. Test Point

\bigcirc : Test Point position

5. Earth Symbol

$\text{---} \text{H} \text{---}$: Chassis Earth (Cold)

\downarrow : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power Source	AC 120V, 50/60Hz (UY/UZ VERSION model)/ AC220-240V, 50/60Hz (Except UY/UZ VERSION)
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \Rightarrow Audio \Rightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

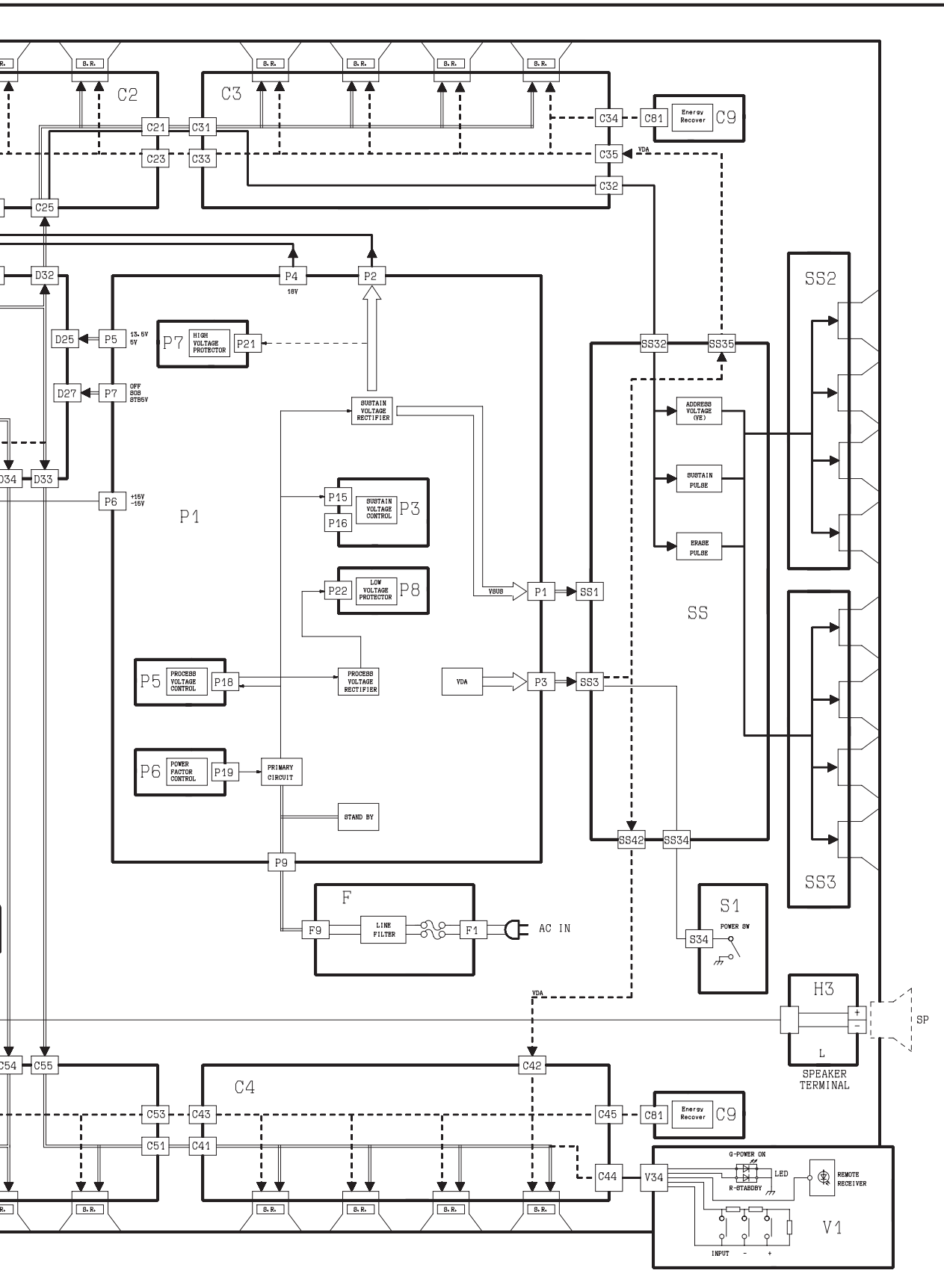
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

All circuits, except the Power Circuit, are cold.

Precautions

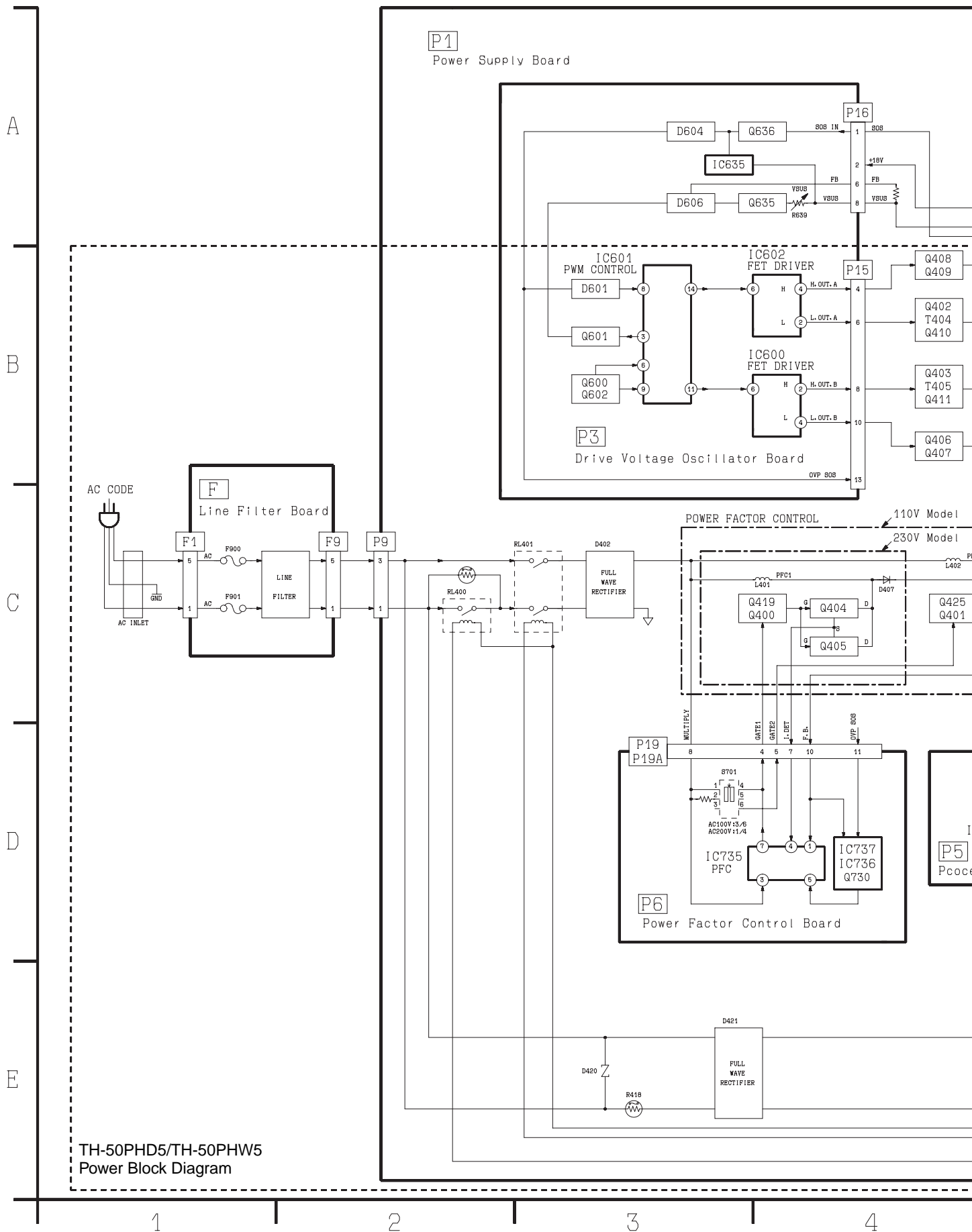
- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

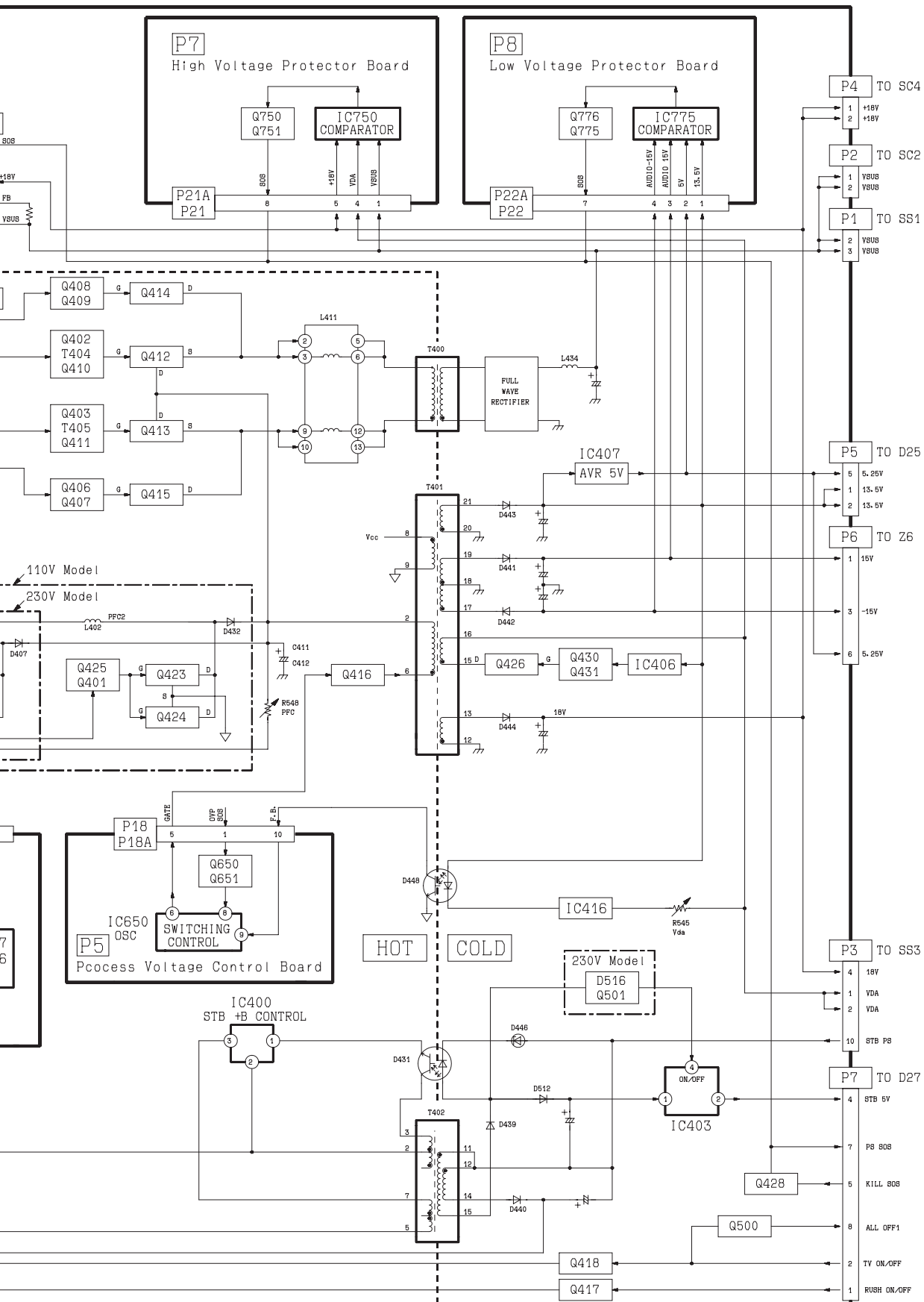




TH-50PHD5/TH-50PHW5 Main Block Diagram

14.3. Power Block Diagram

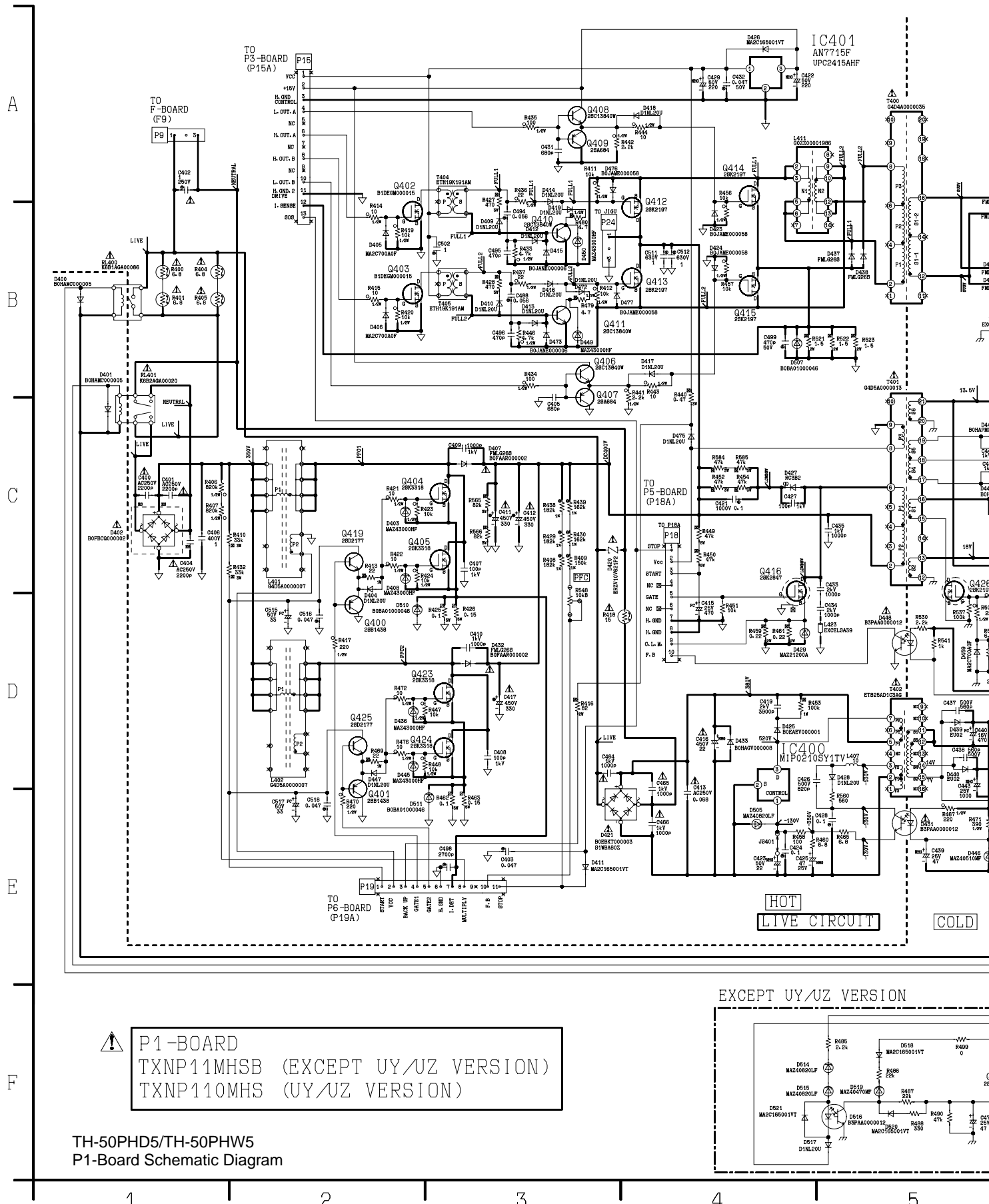


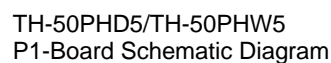


TH-50PHD5/TH-50PHW5 Power Block Diagram

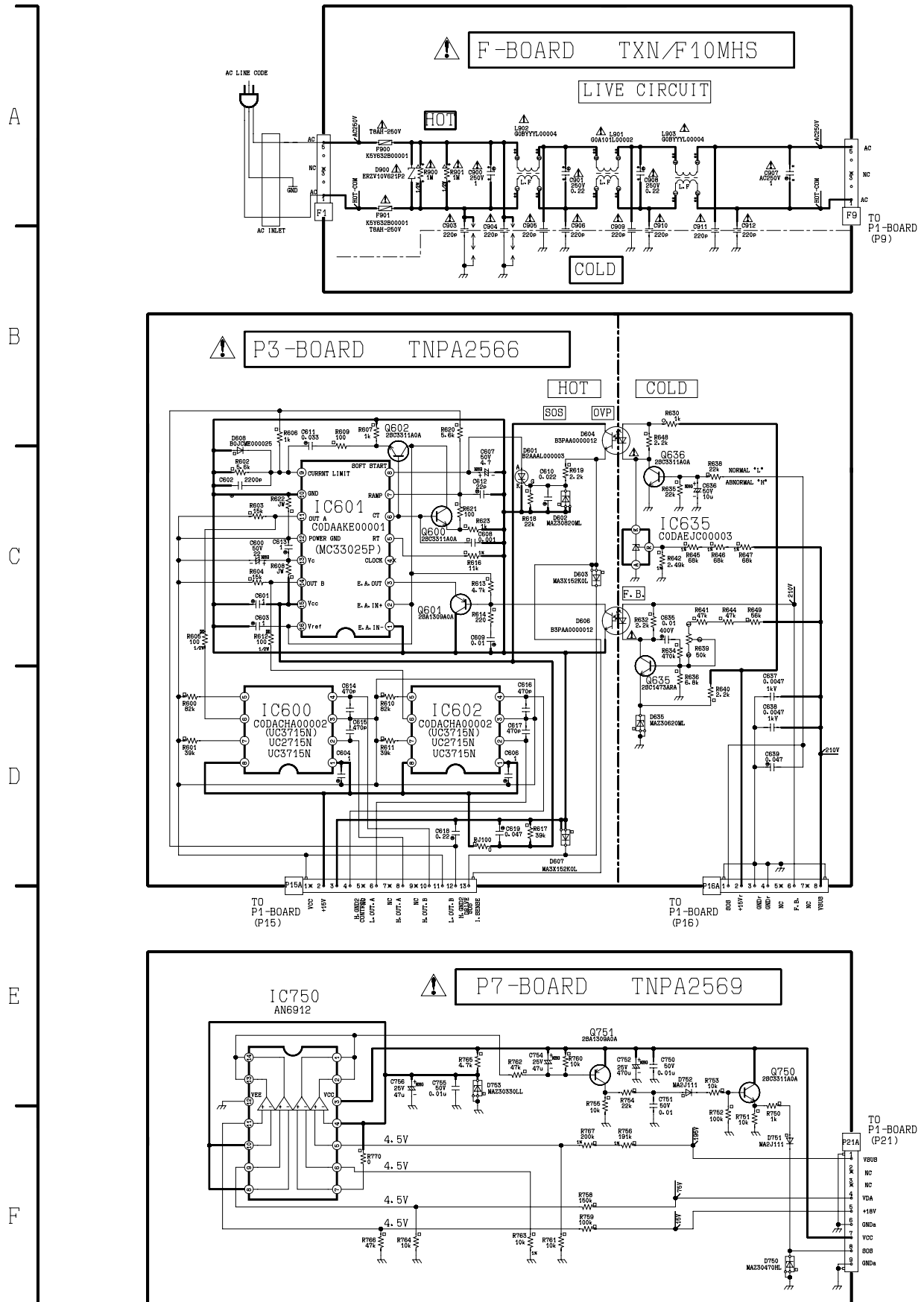
4 5 6 7

14.4. P1-Board Schematic Diagram





14.5. F, P3, P5, P6, P7 and P8-Board Schematic Diagram



1

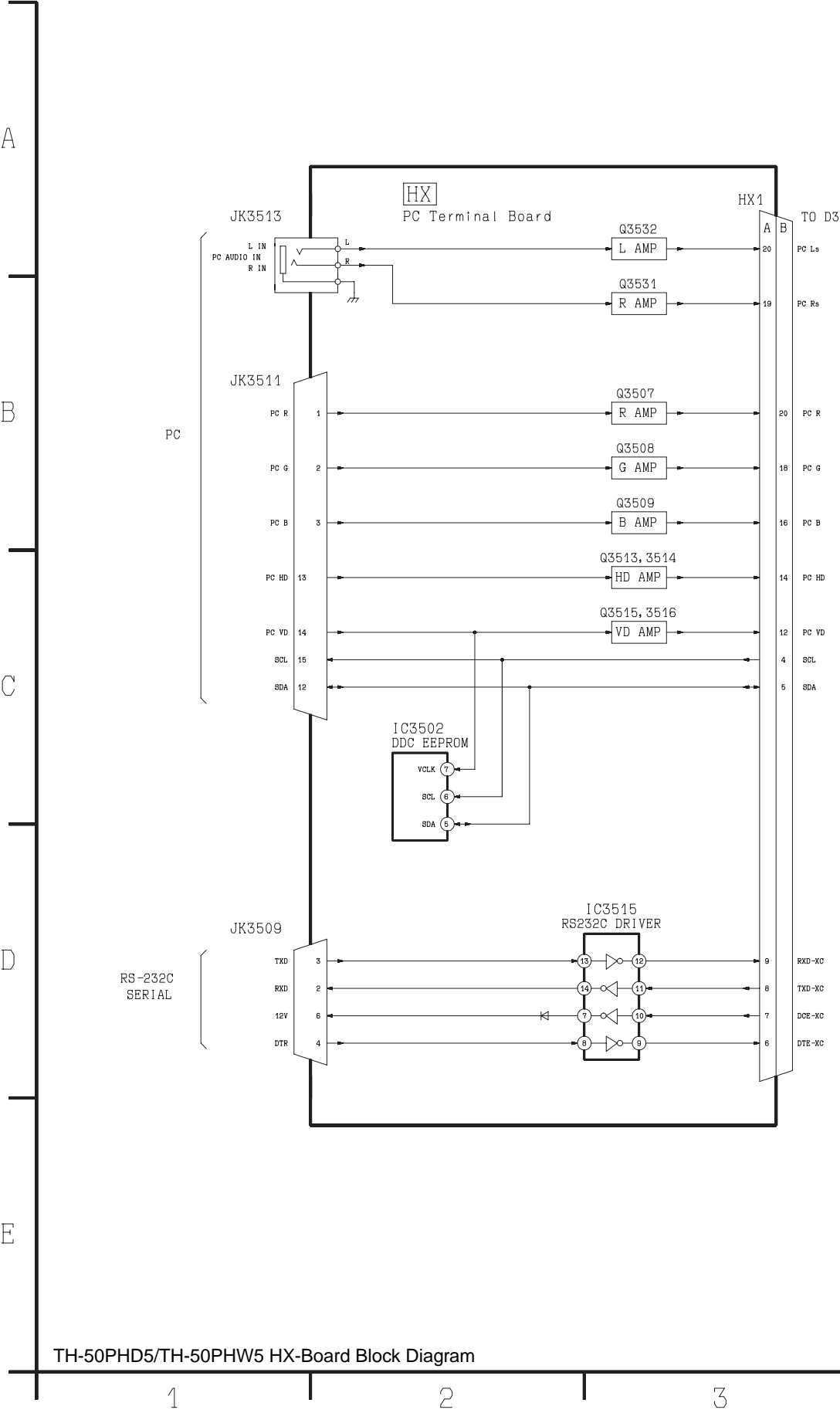
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14.6. HX-Board Block Diagram

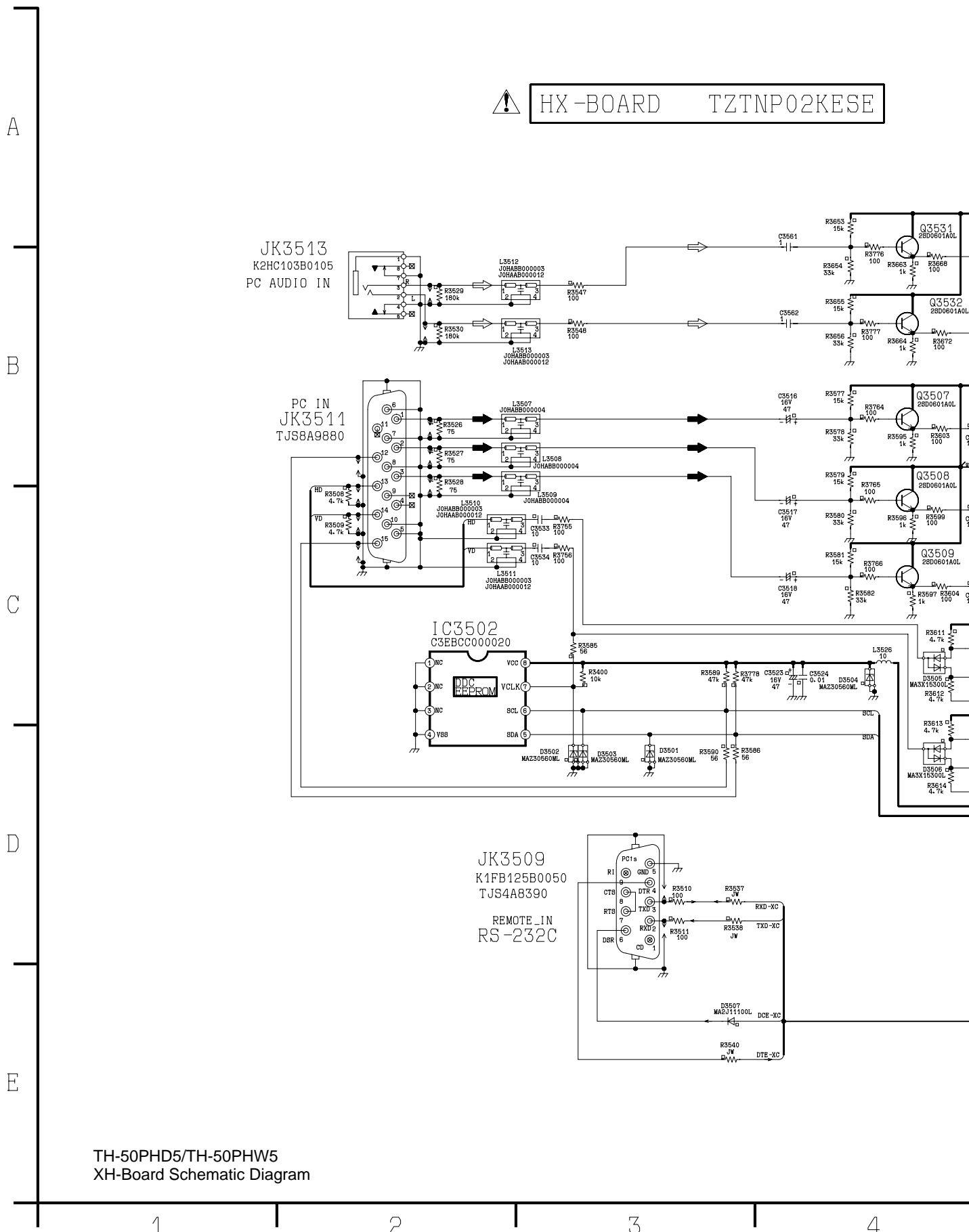


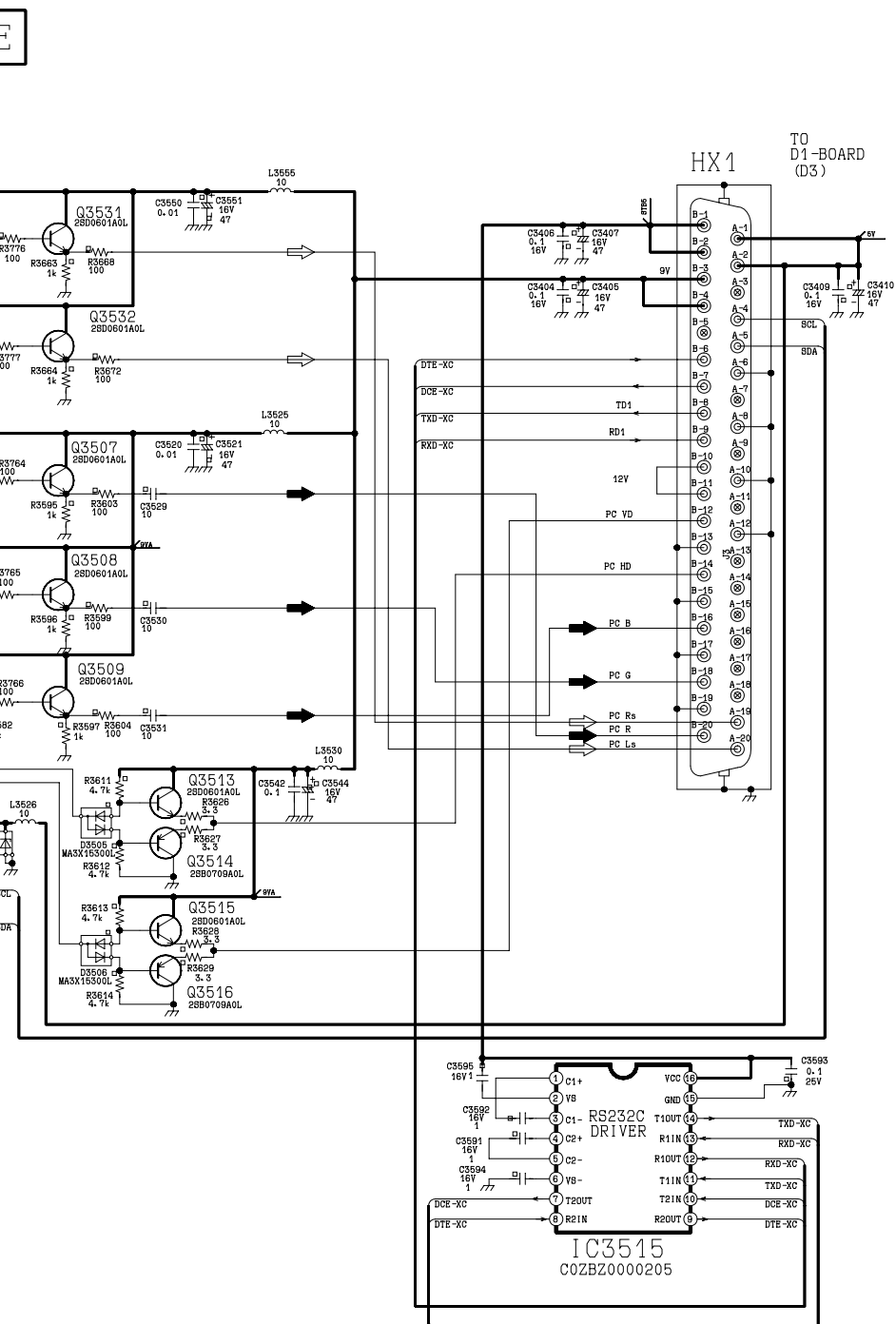


TH-50PHD5/TH-50PHW5 HX-Board Block Diagram



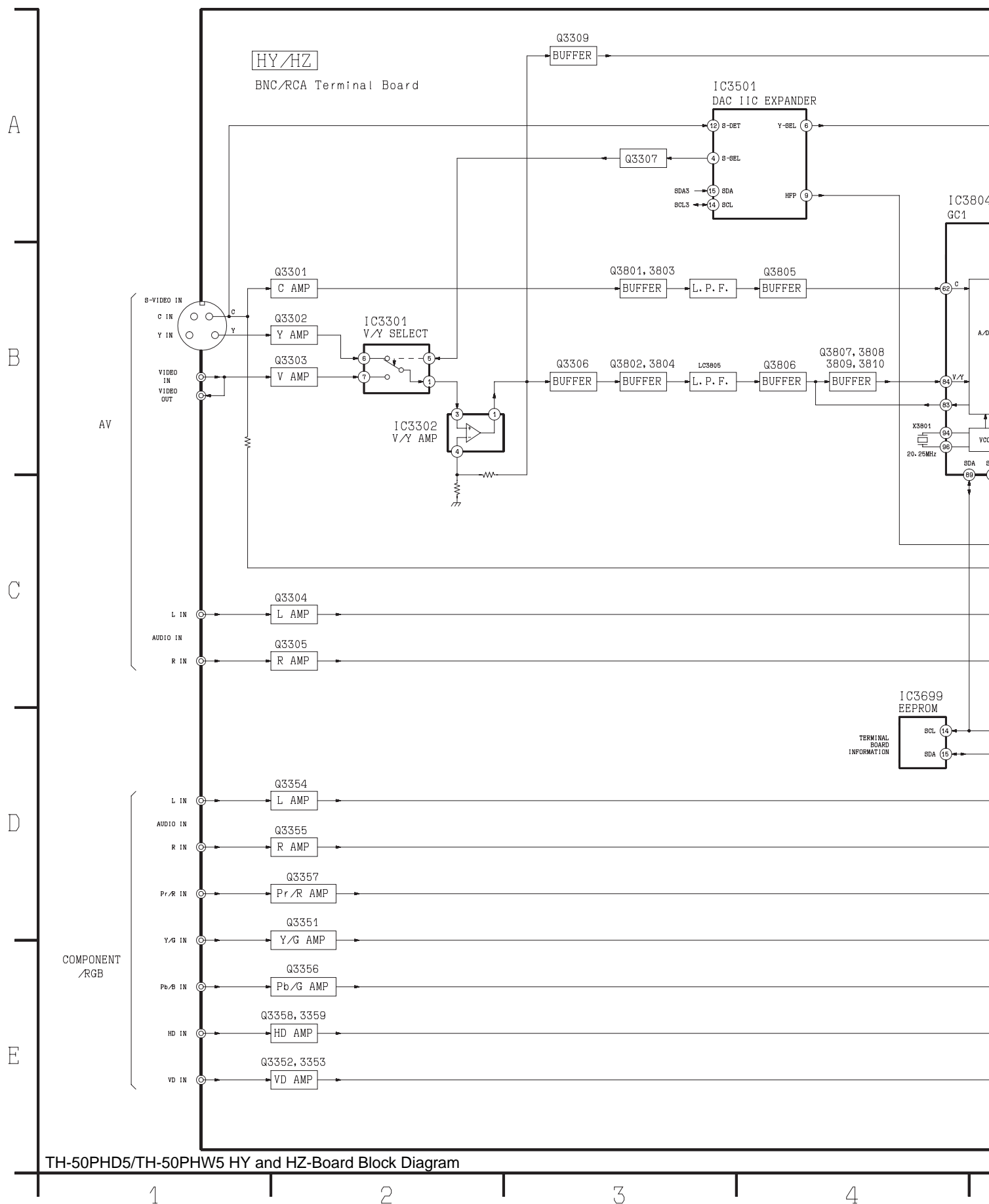
14.7. HX-Board Schematic Diagram

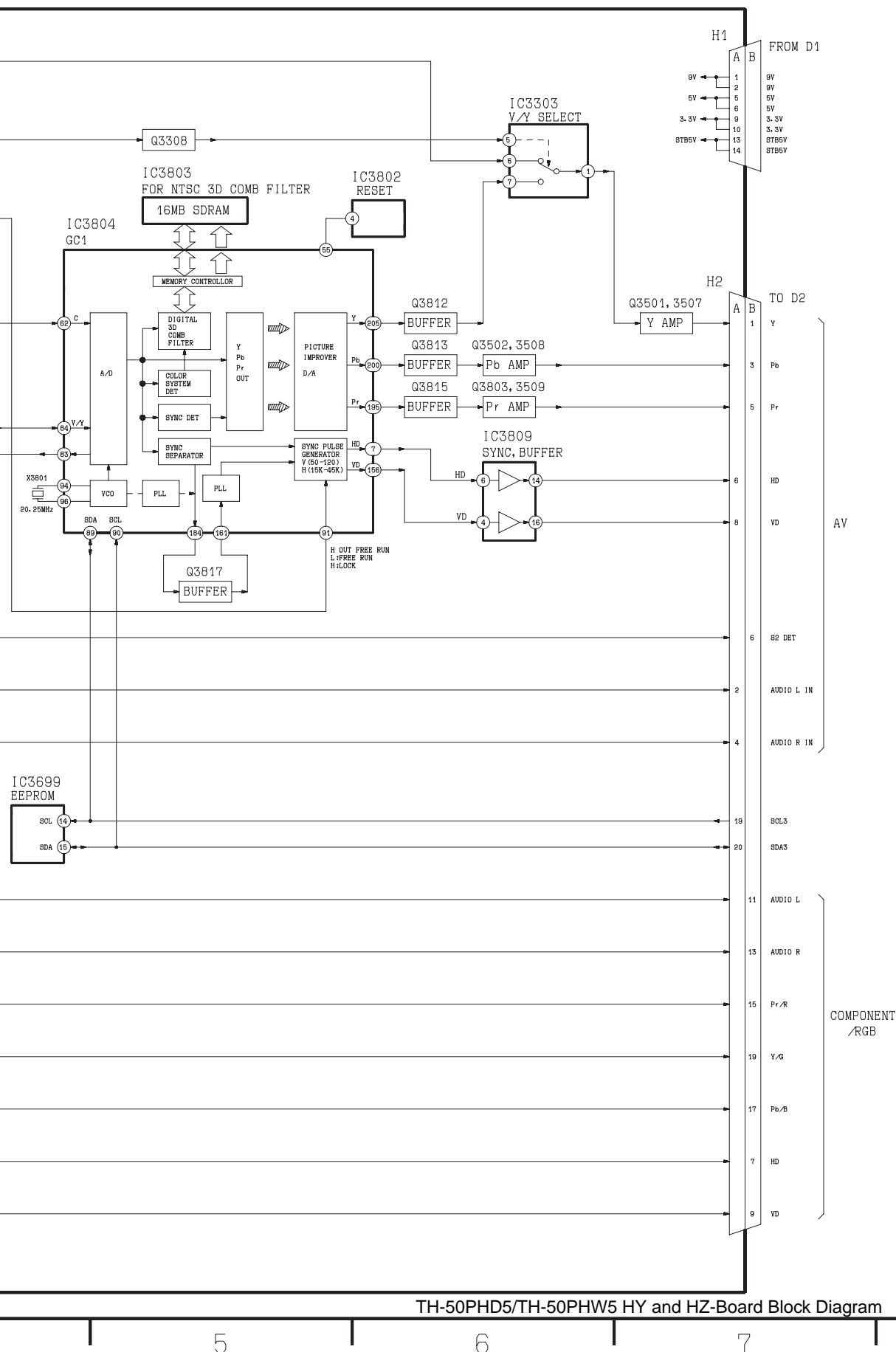




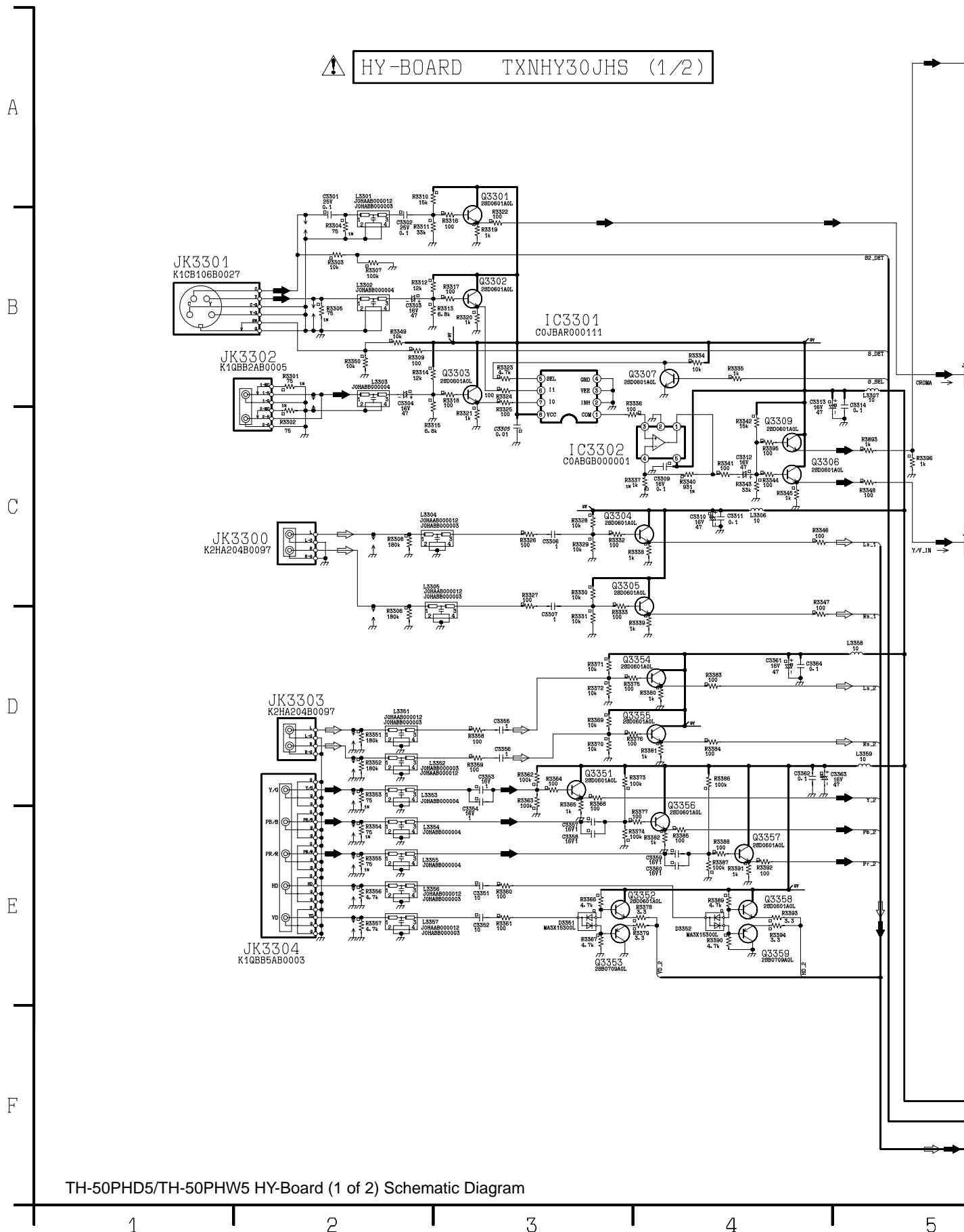
TH-50PHD5/TH-50PHW5
XH-Board Schematic Diagram

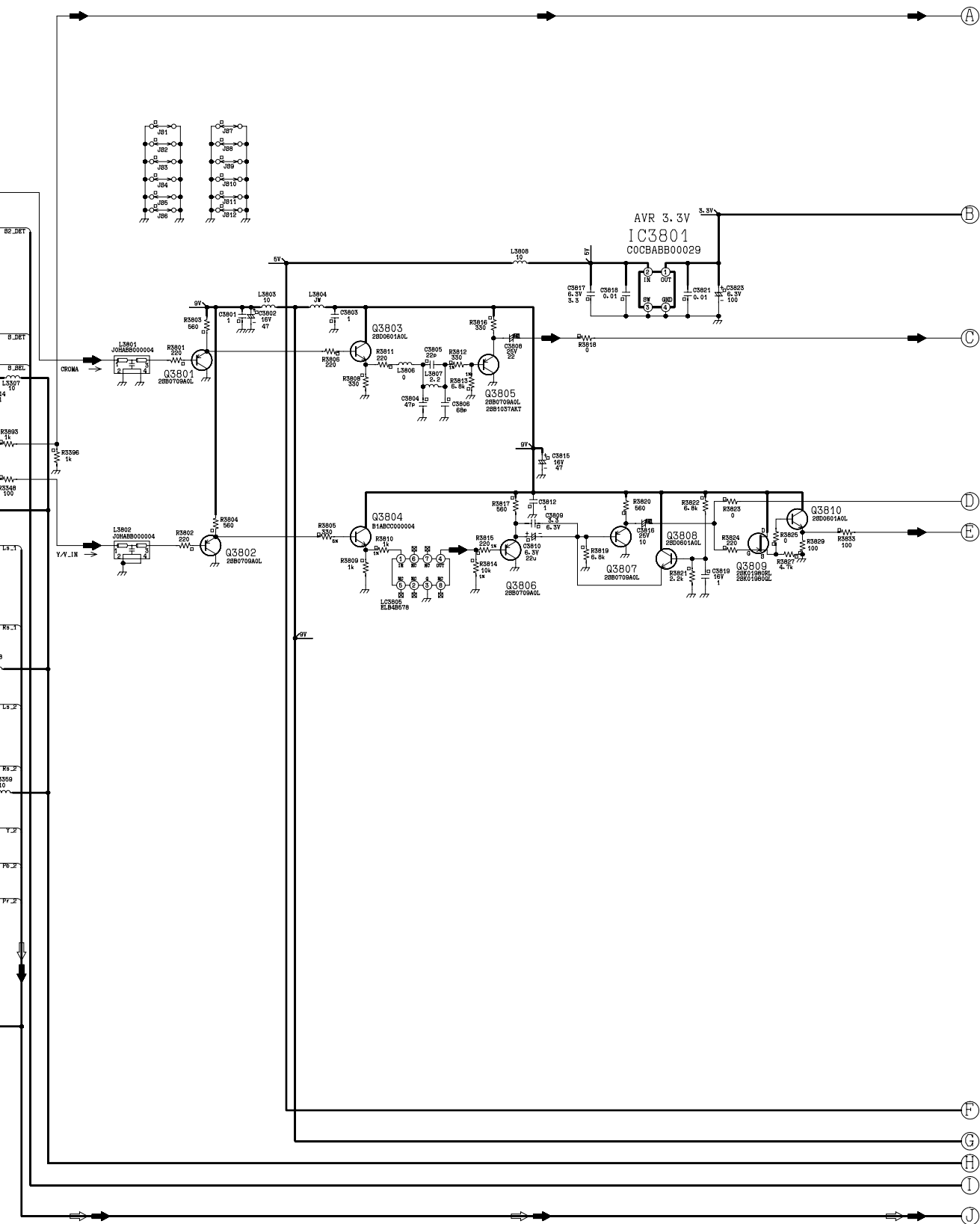
14.8. HY and HZ-Board Block Diagram





14.9. HY-Board (1 of 2) Schematic Diagram





TH-50PHD5/TH-50PHW5 HY-Board (1 of 2) Schematic Diagram

5

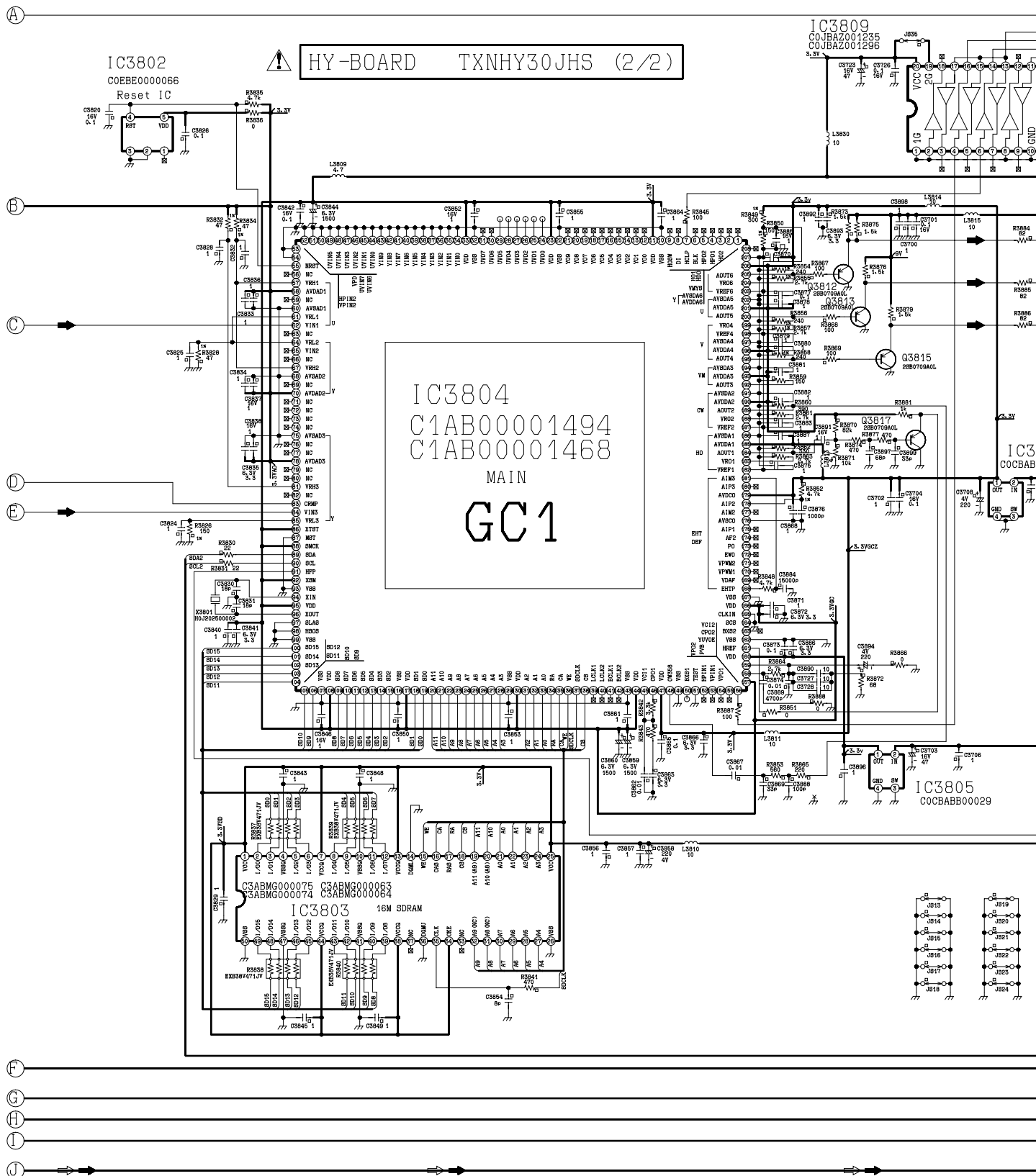
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14.10. HY-Board (2 of 2) Schematic Diagram



TH-50PHD5/TH-50PHW5 HY-Board (2 of 2) Schematic Diagram

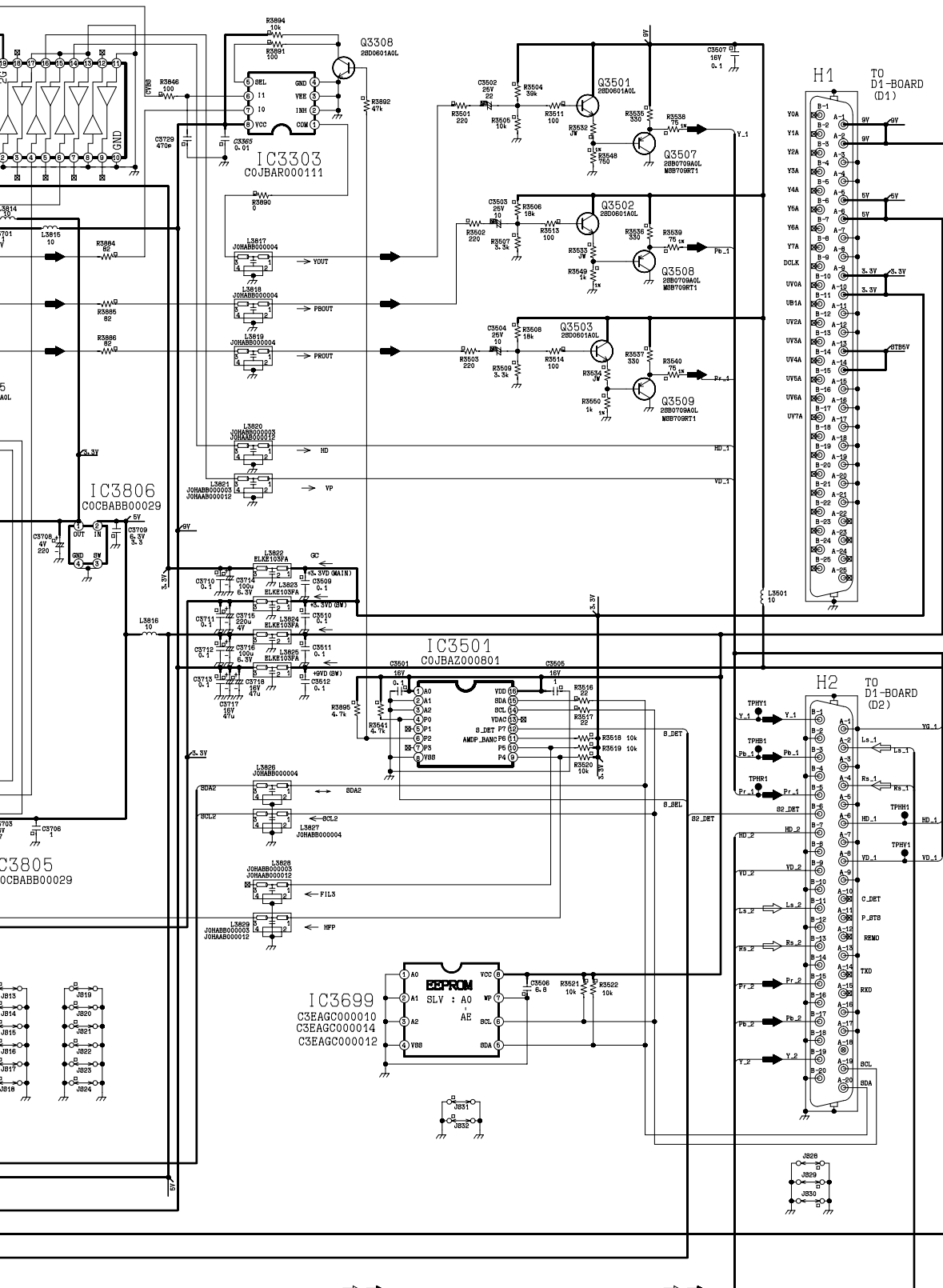
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TH-50PHD5/TH-50PHW5 HY-Board (2 of 2) Schematic Diagram

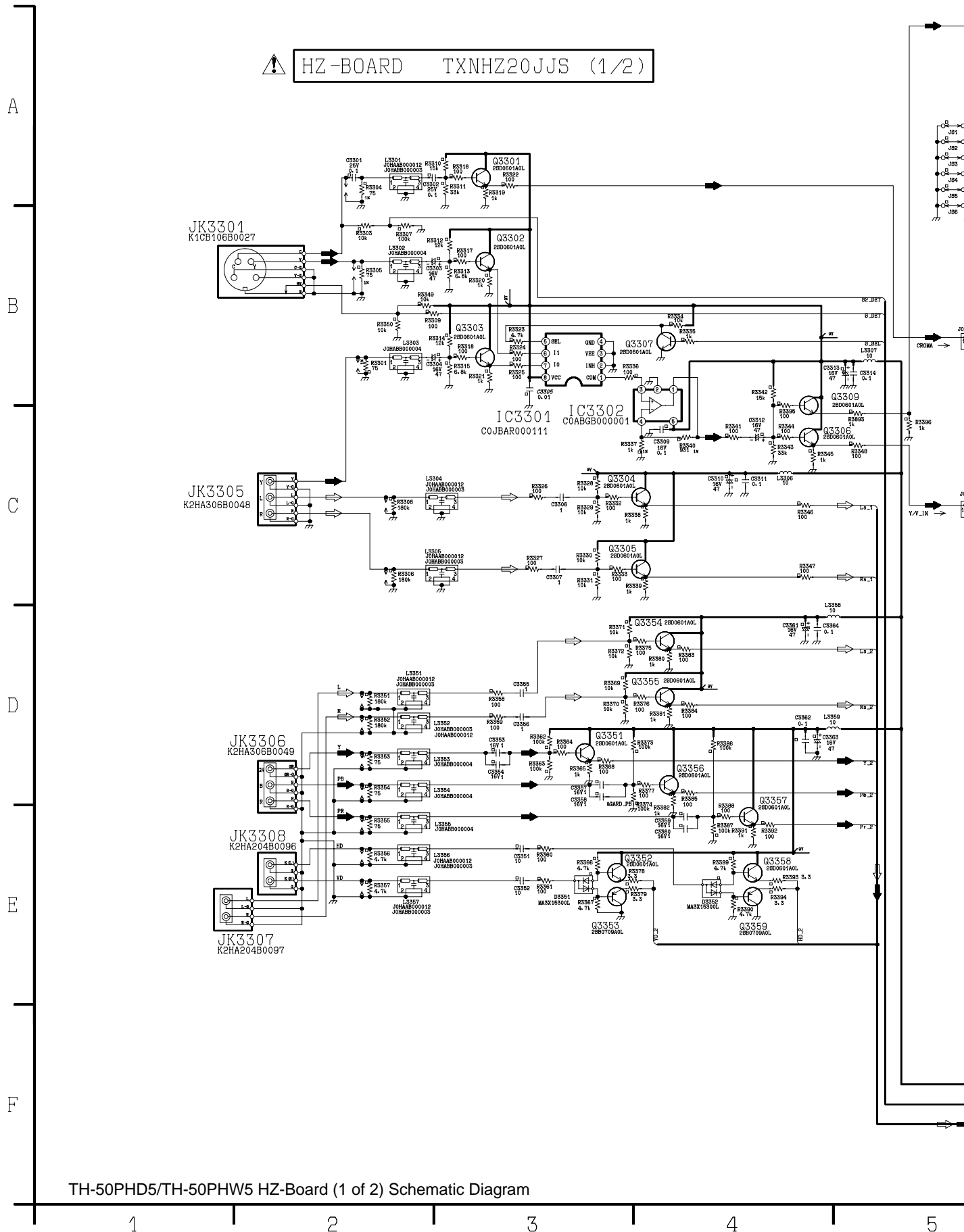
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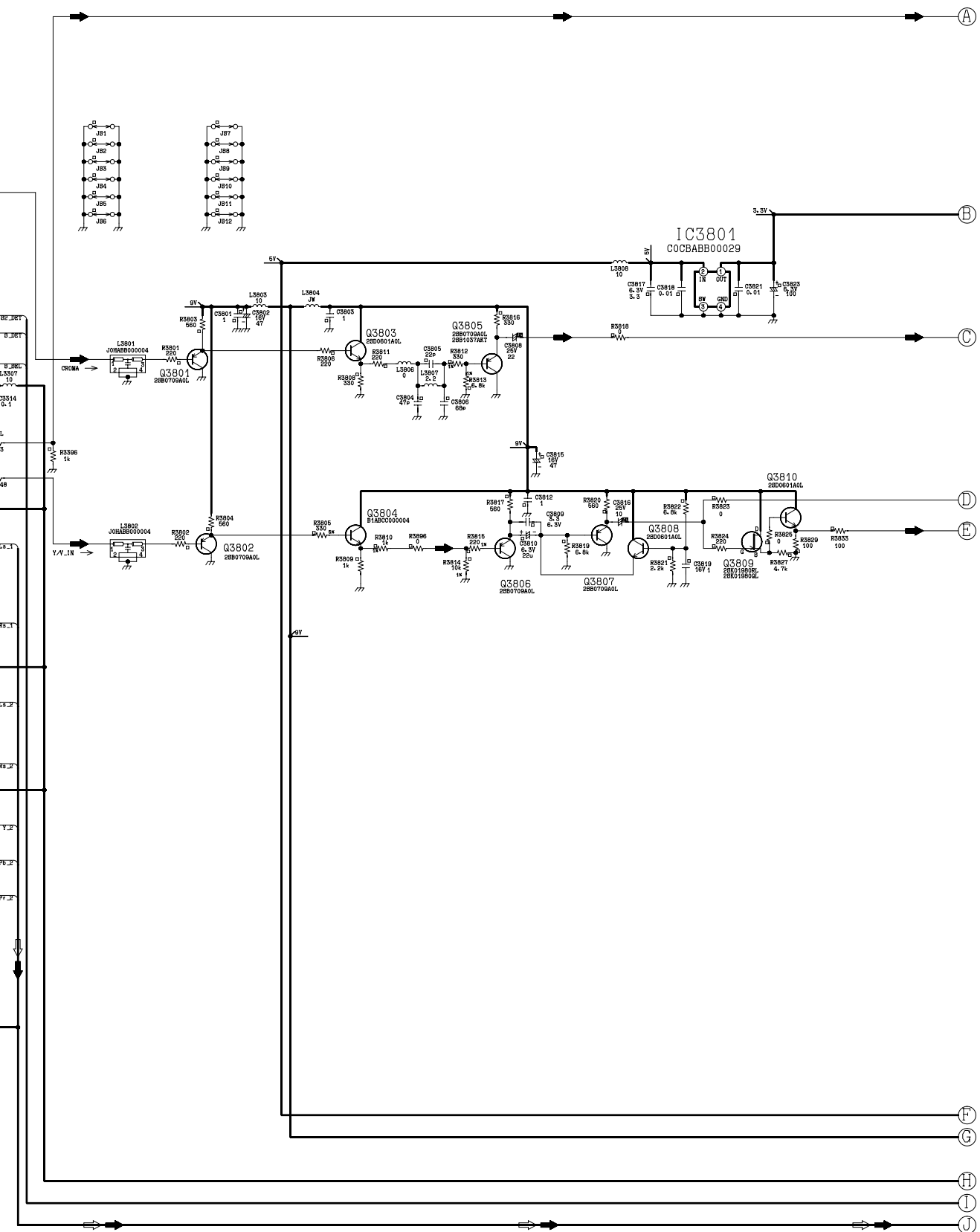
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14.11. HZ-Board (1 of 2) Schematic Diagram





TH-50PHD5/TH-50PHW5 HZ-Board (1 of 2) Schematic Diagram

5

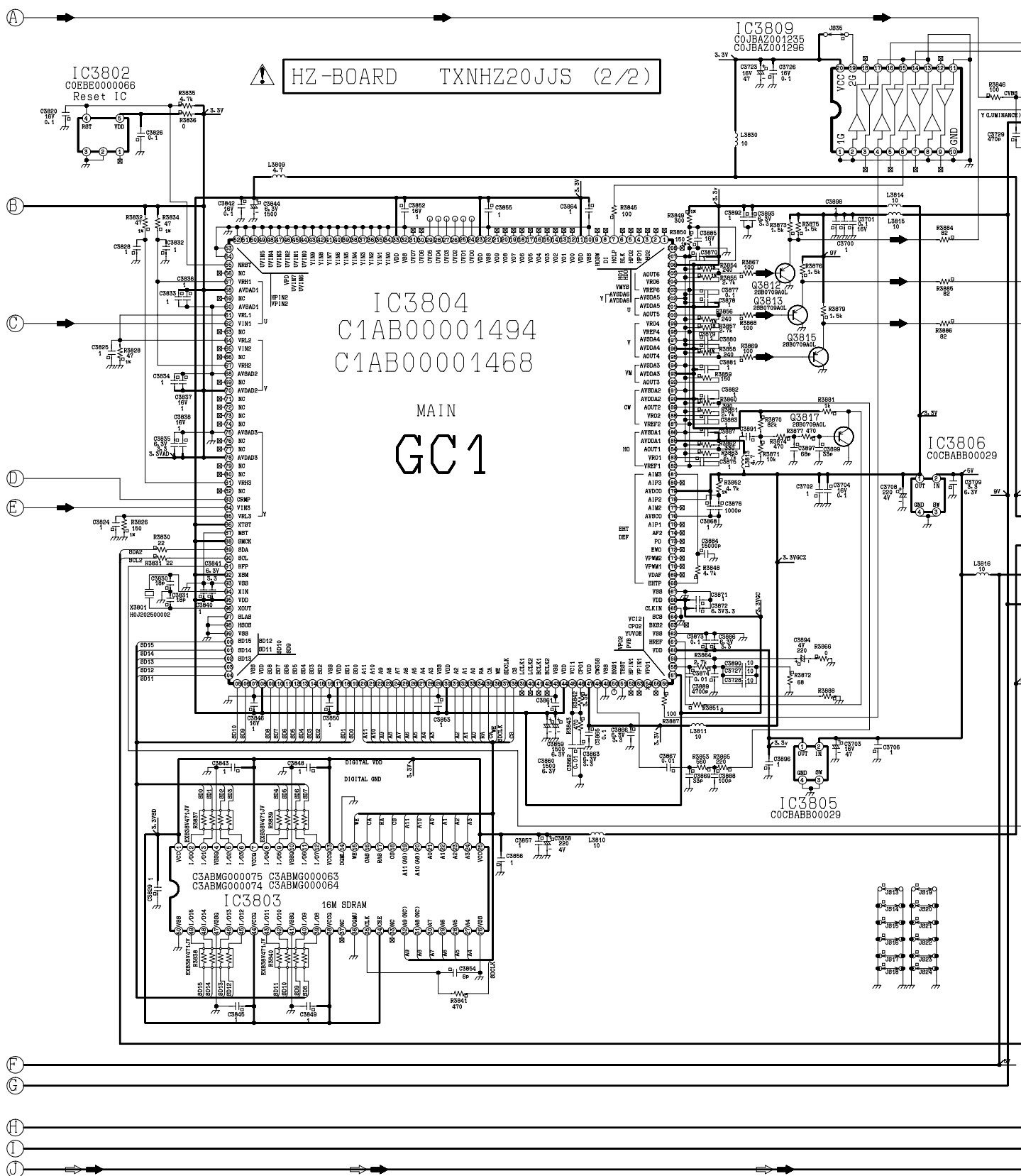
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14.12. HZ-Board (2 of 2) Schematic Diagram



TH-50PHD5/TH-50PHW5 HZ-Board (2 of 2) Schematic Diagram

9

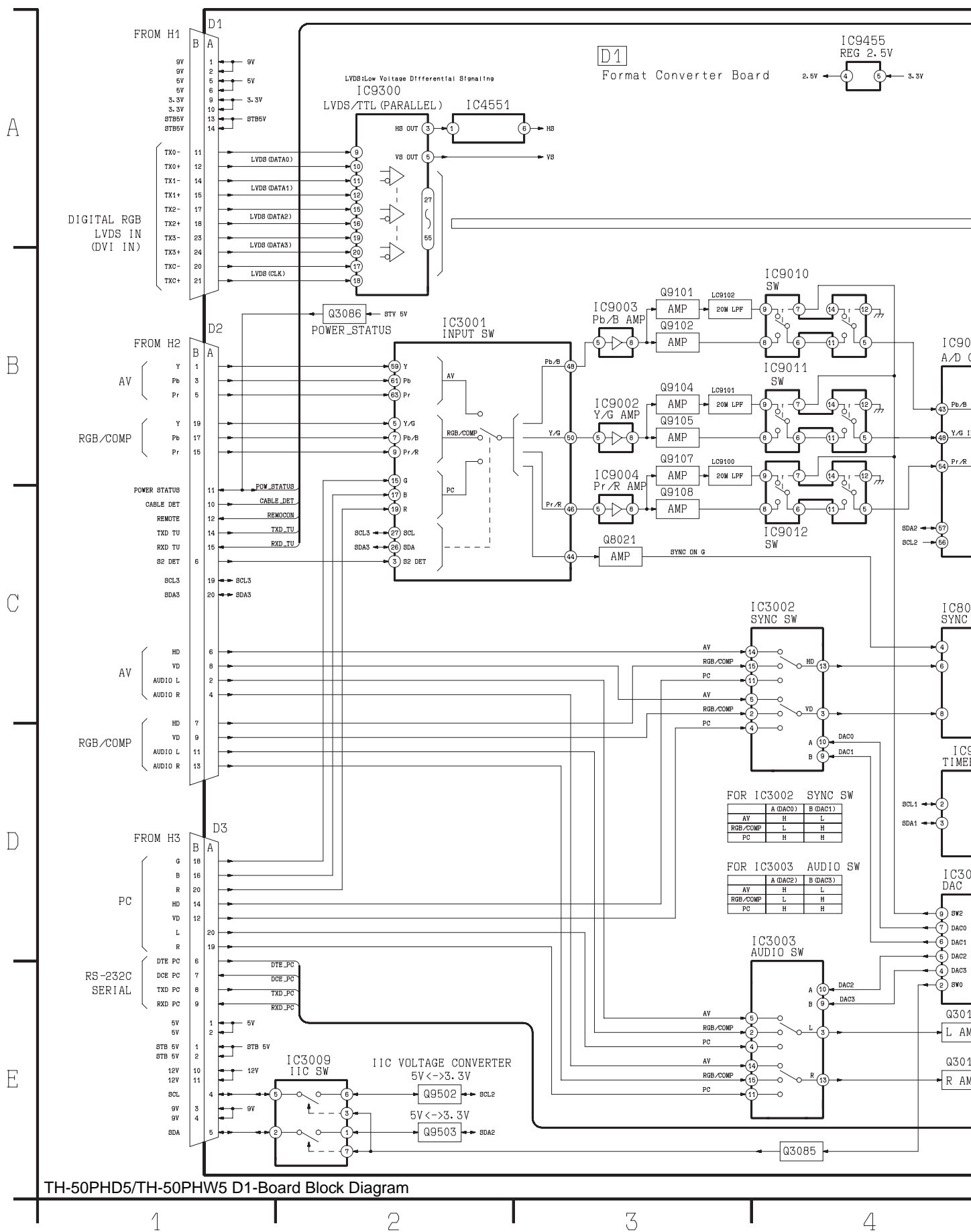
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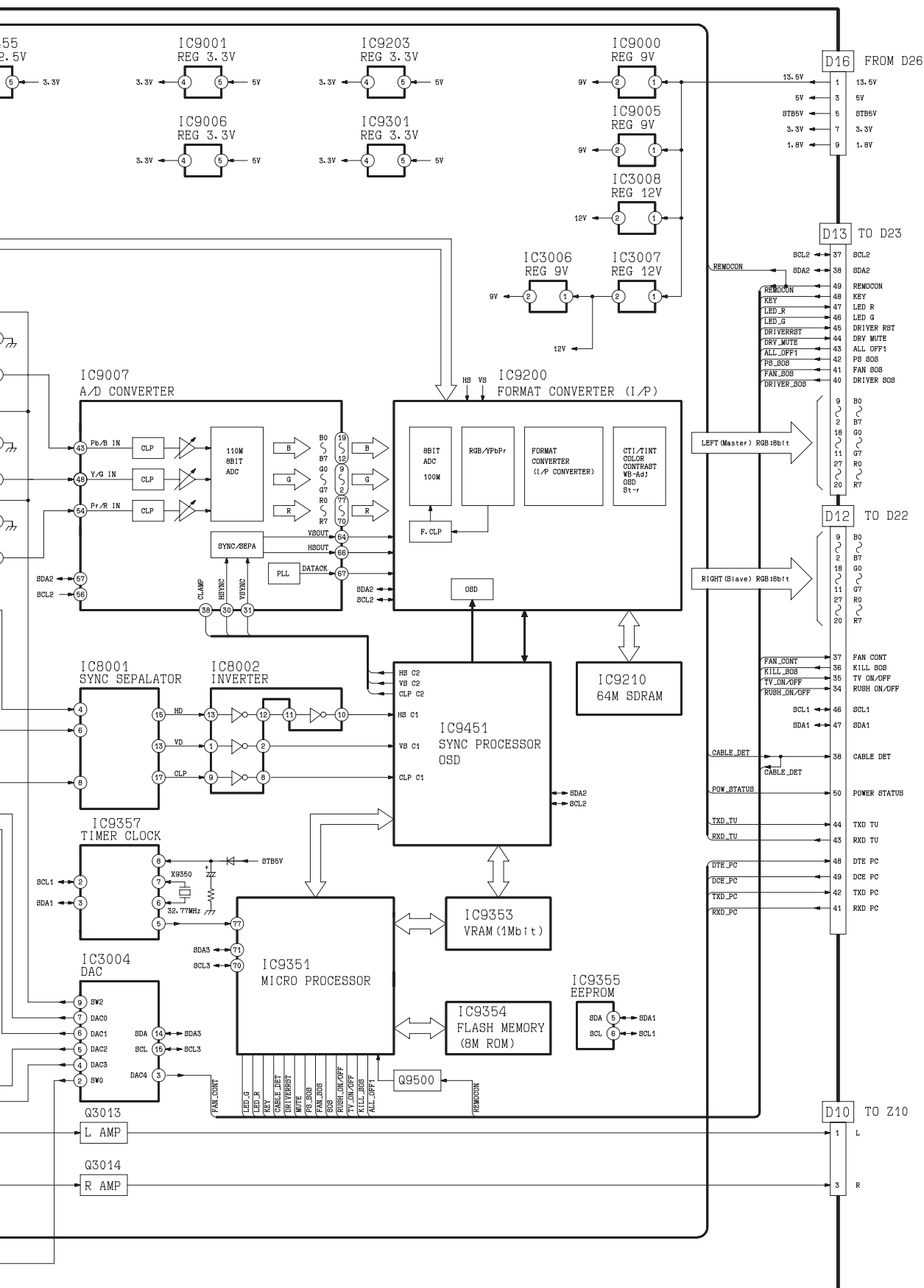
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14.13. D1-Board Block Diagram

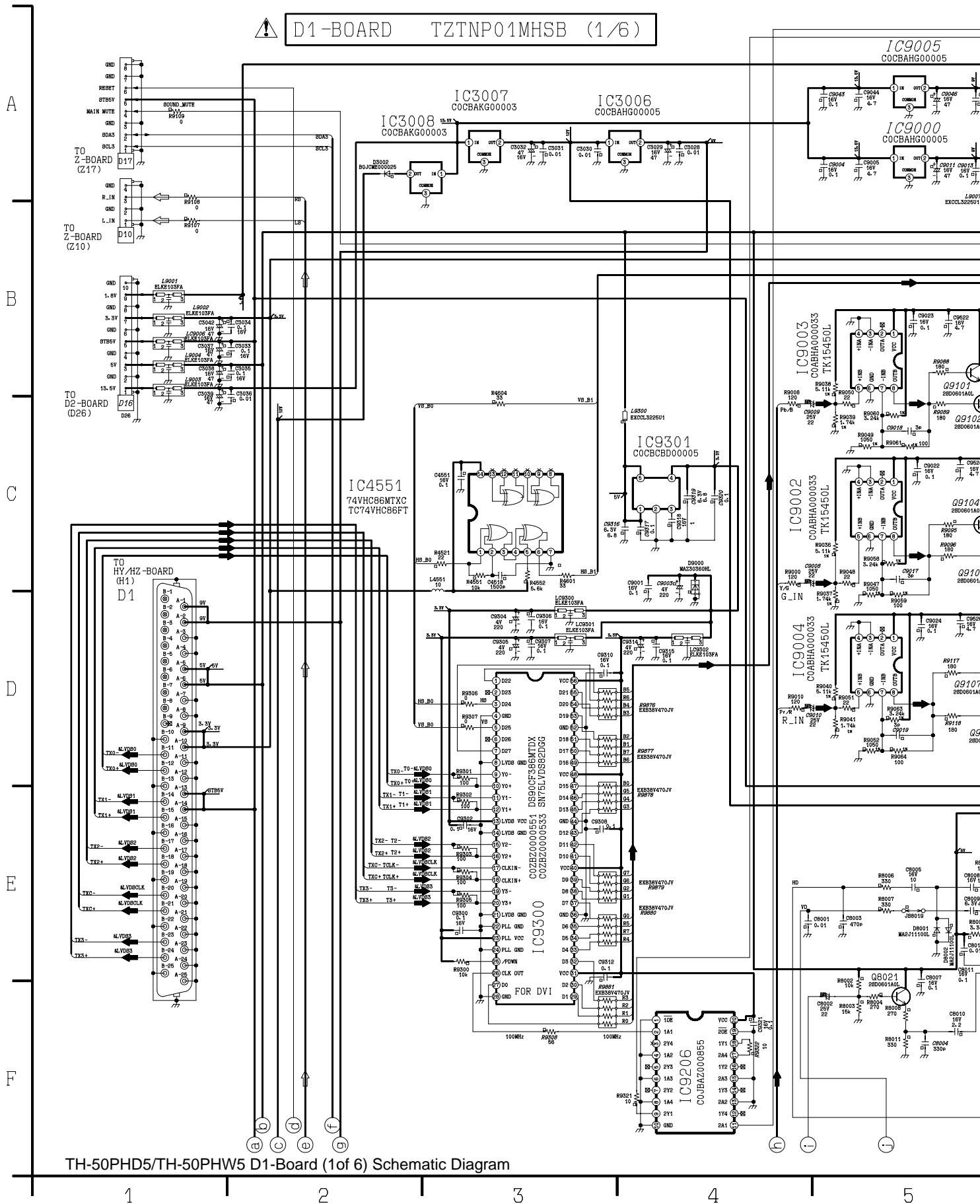


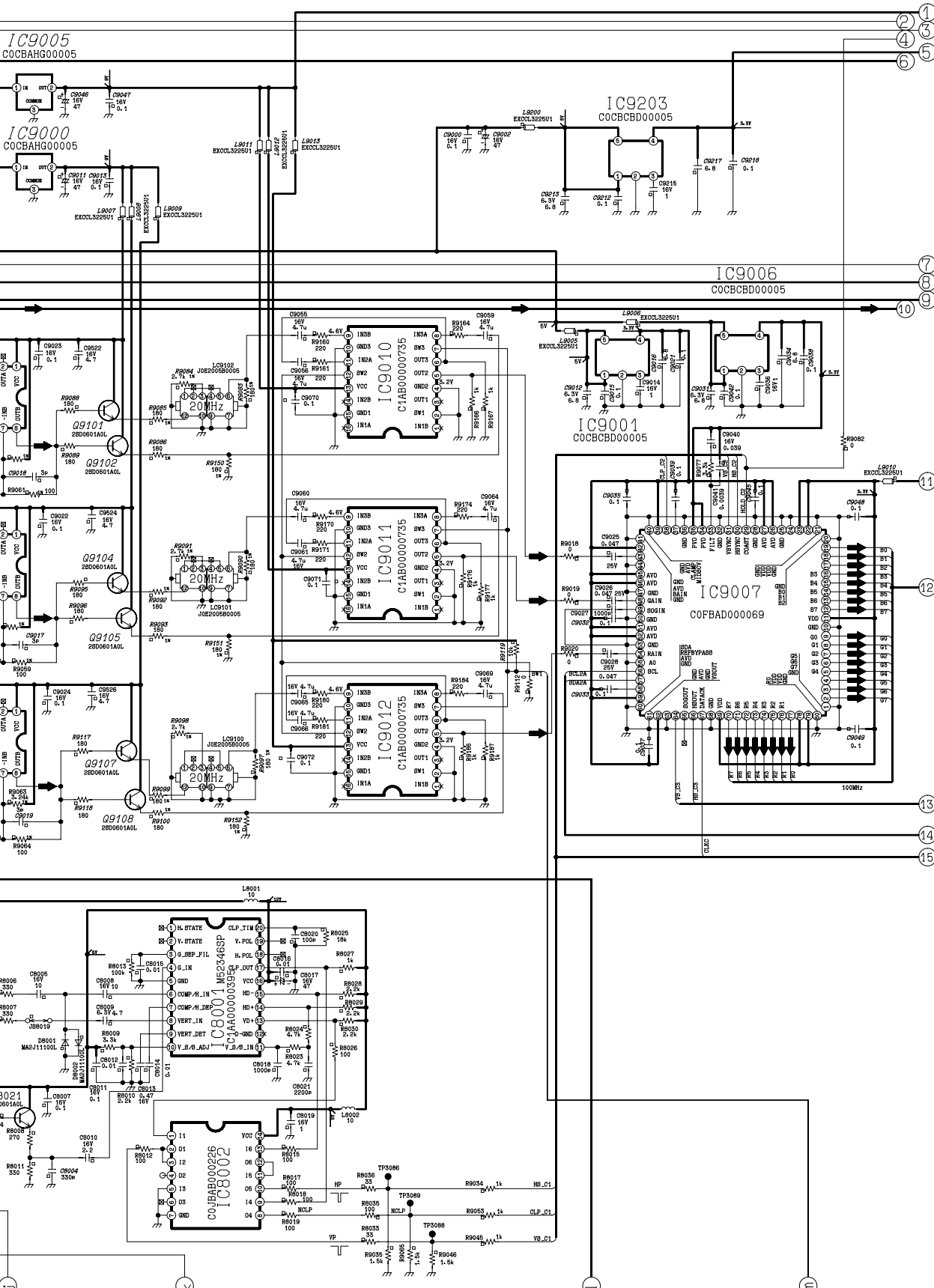
TH-50PHD5/TH-50PHW5 D1-Board Block Diagram



TH-50PHD5/TH-50PHW5 D1-Board Block Diagram

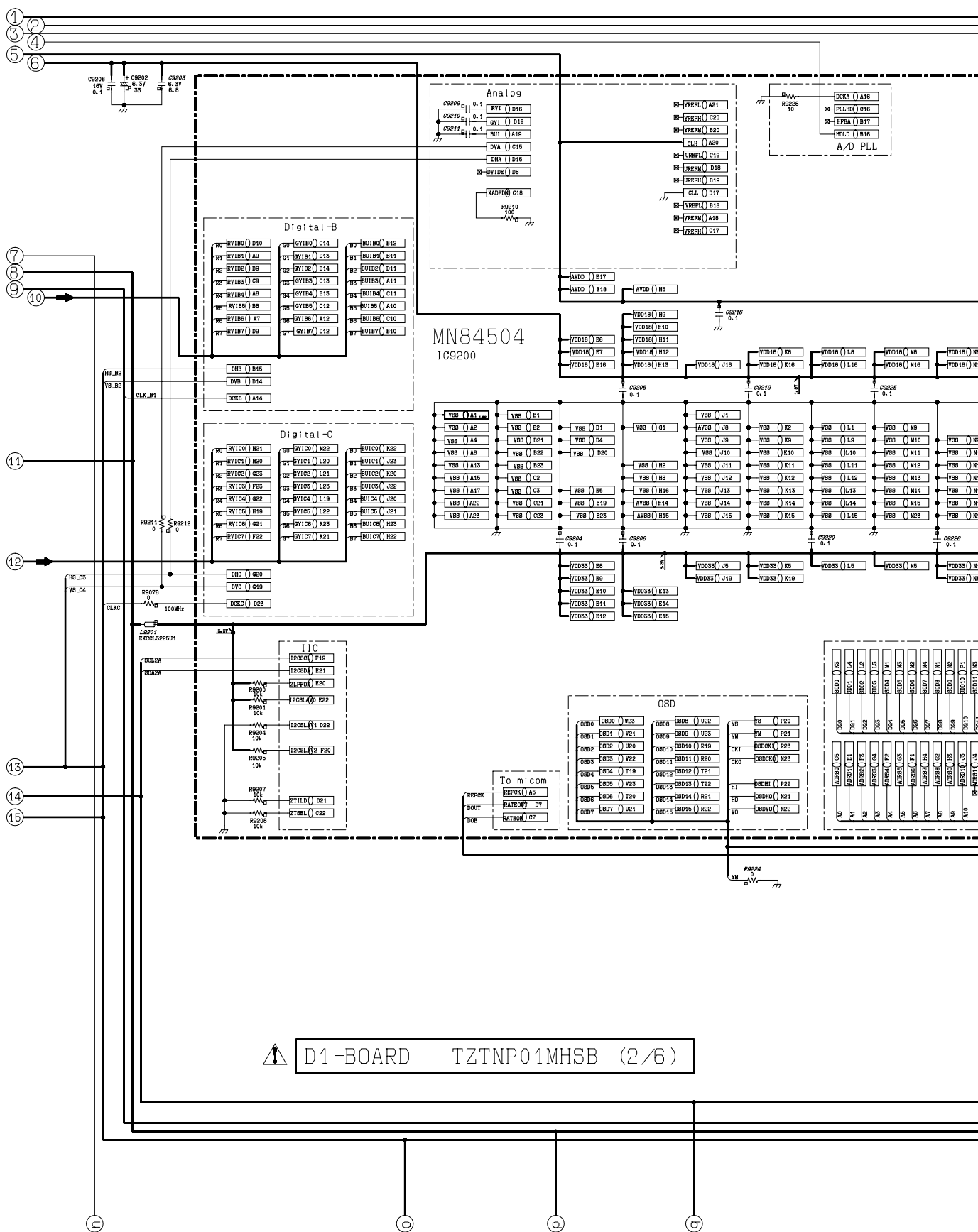
14.14. D1-Board (1 of 6) Schematic Diagram





TH-50PHD5/TH-50PHW5 D1-Board (1 of 6) Schematic Diagram

14.15. D1-Board (2 of 6) Schematic Diagram



TH-50PHD5/TH-50PHW5 D1-Board (2 of 6) Schematic Diagram

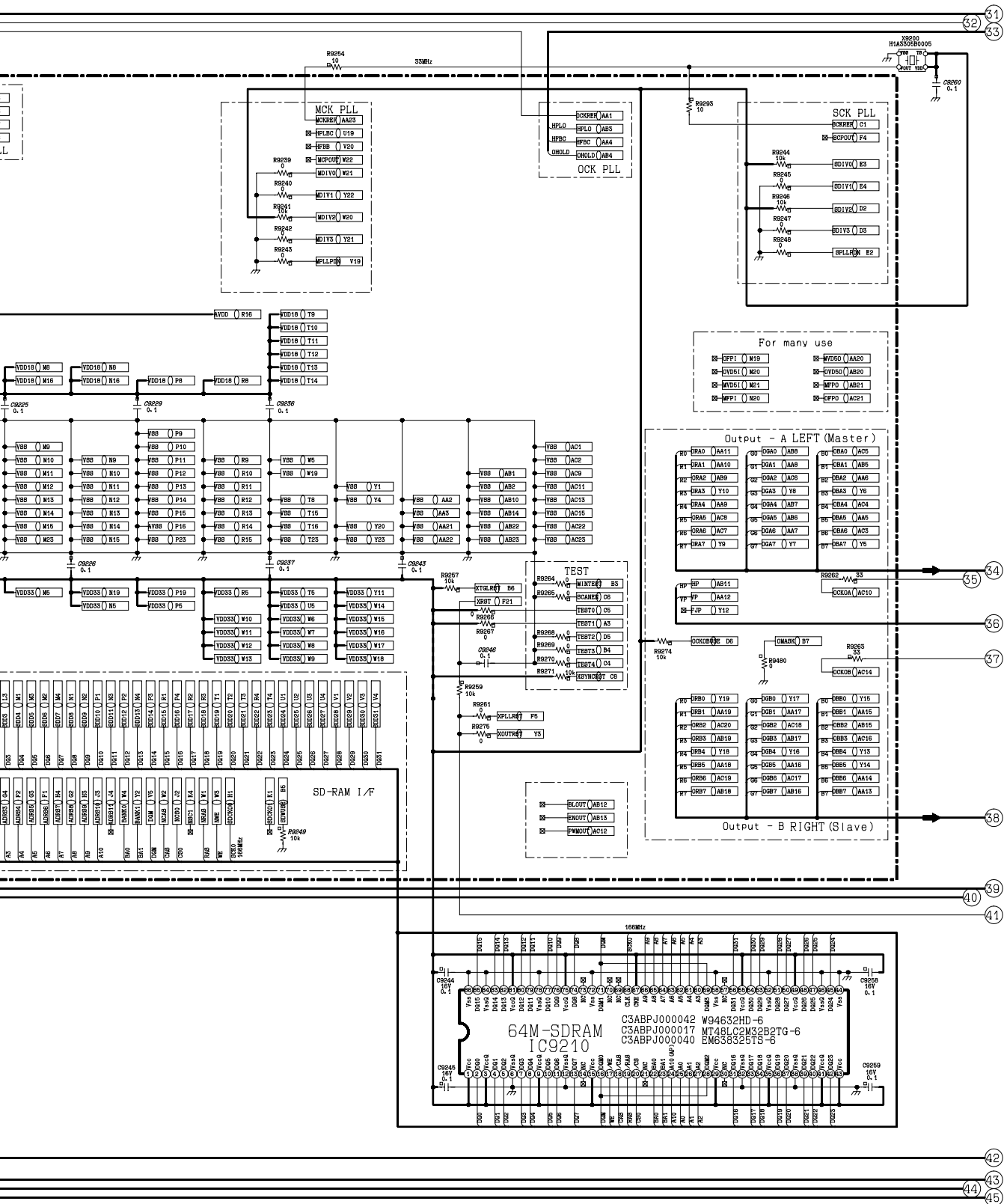
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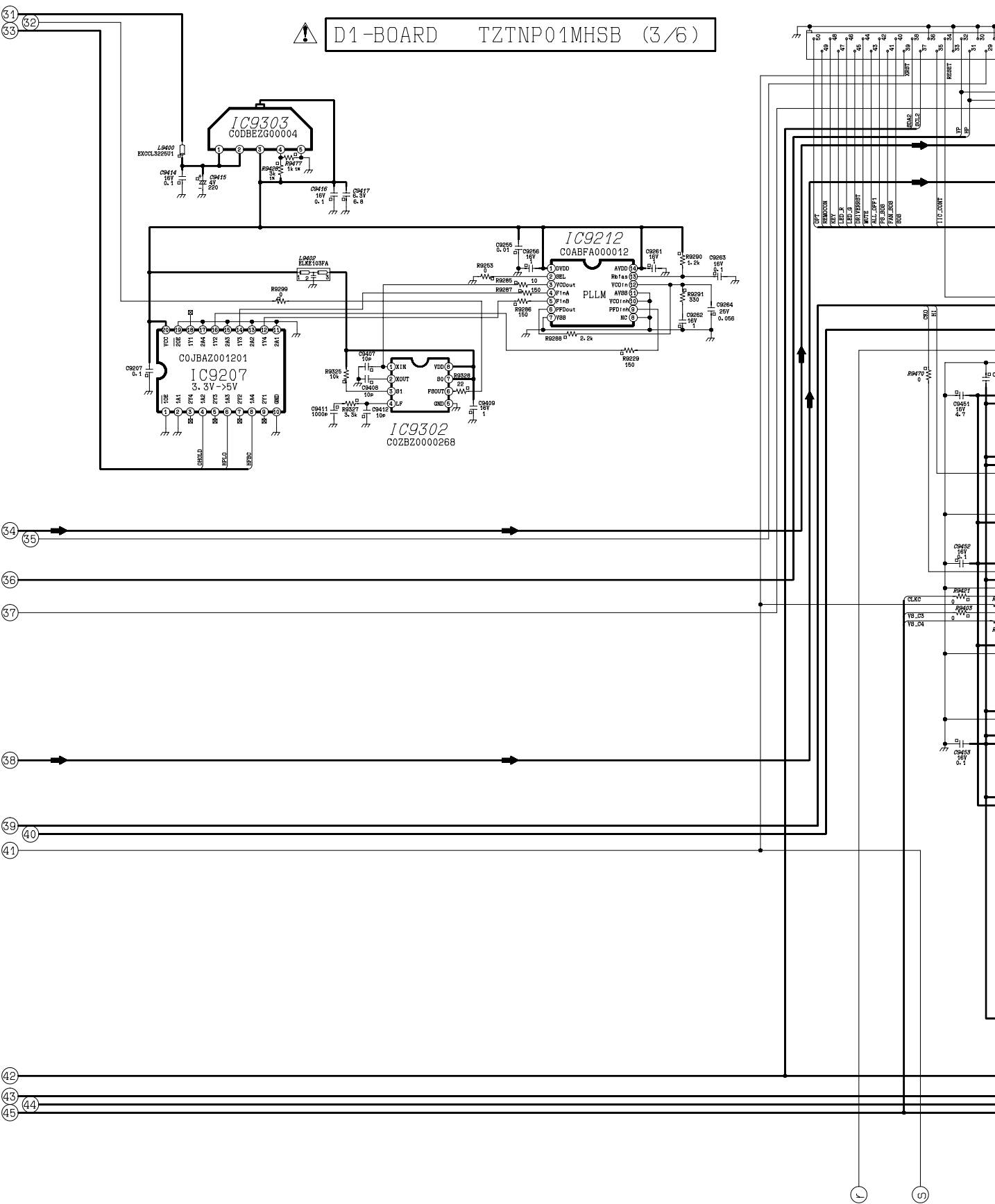
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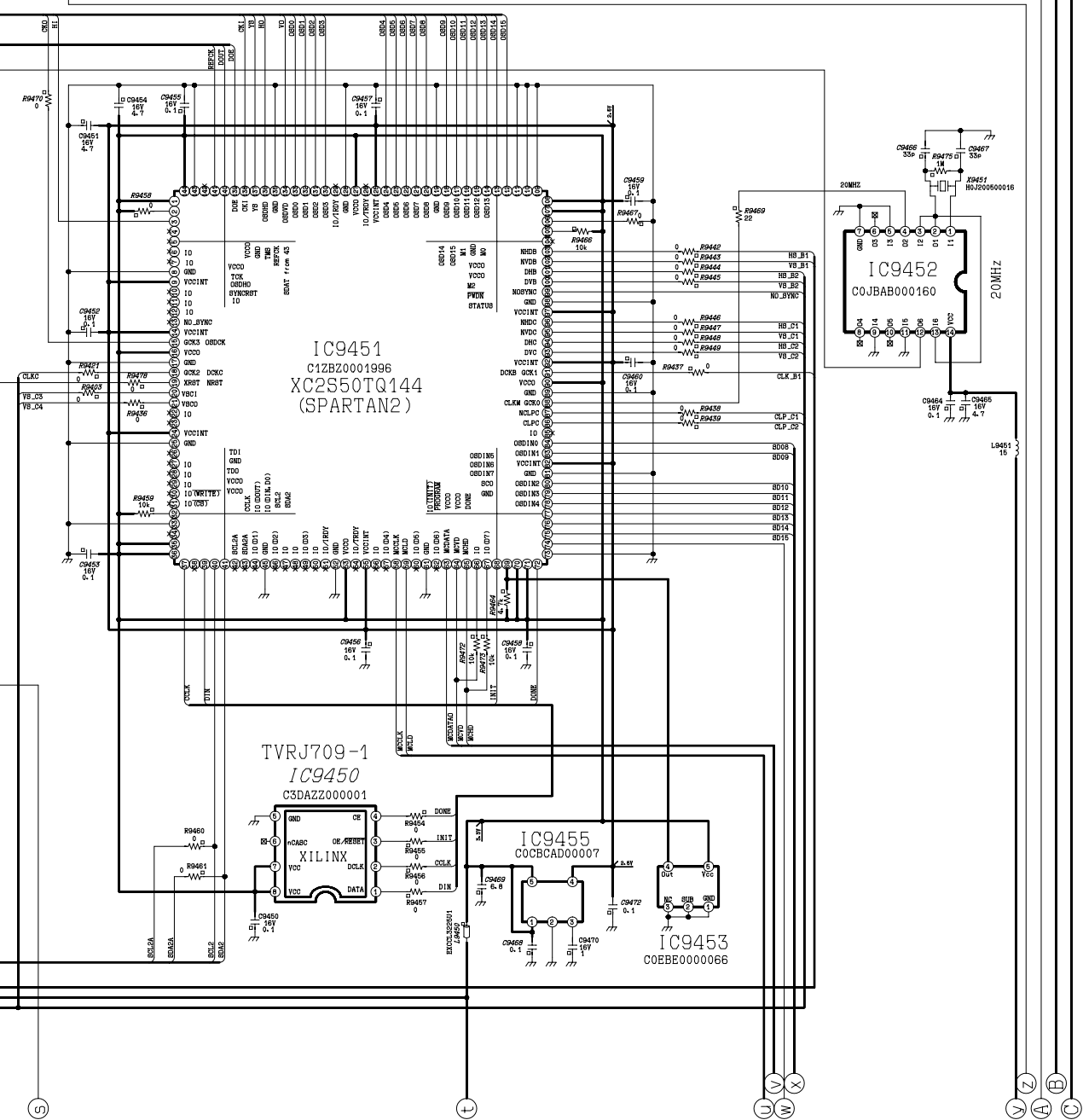


TH-50PHD5/TH-50PHW5 D1-Board (2 of 6) Schematic Diagram

14.16. D1-Board (3 of 6) Schematic Diagram



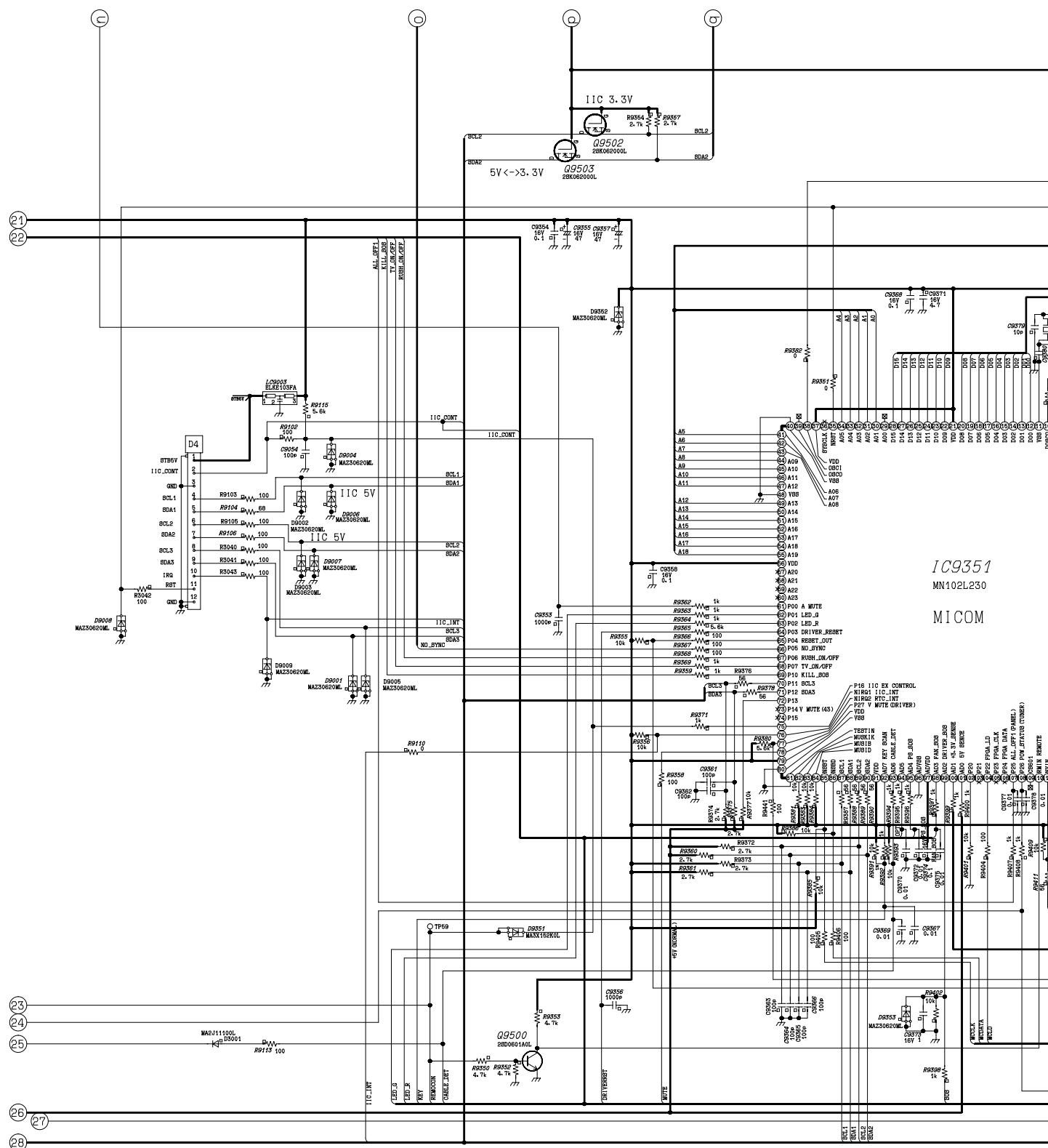
TH-50PHD5/TH-50PHW5 D1-Board (3 of 6) Schematic Diagram



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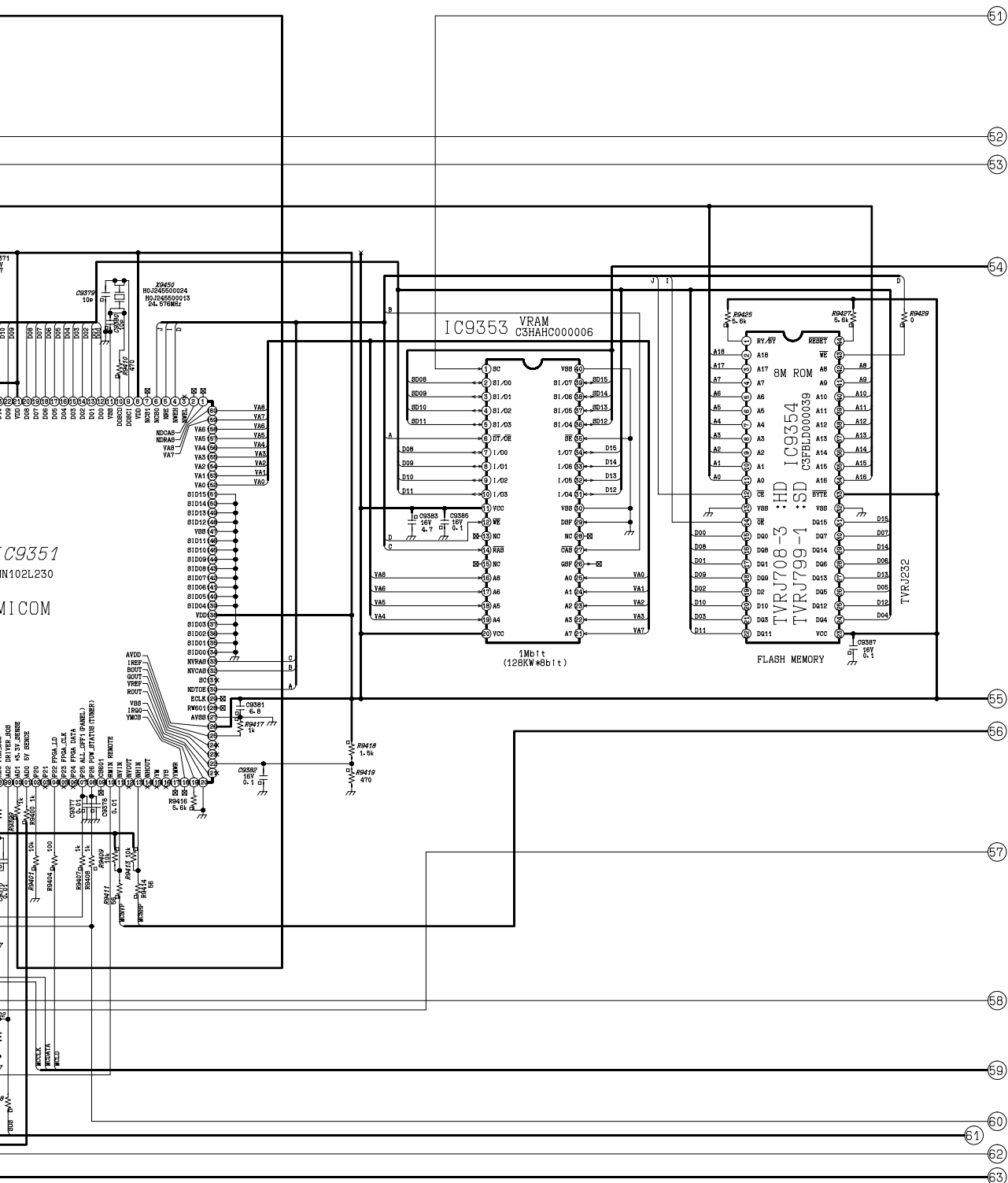


14.18. D1-Board (5 of 6) Schematic Diagram



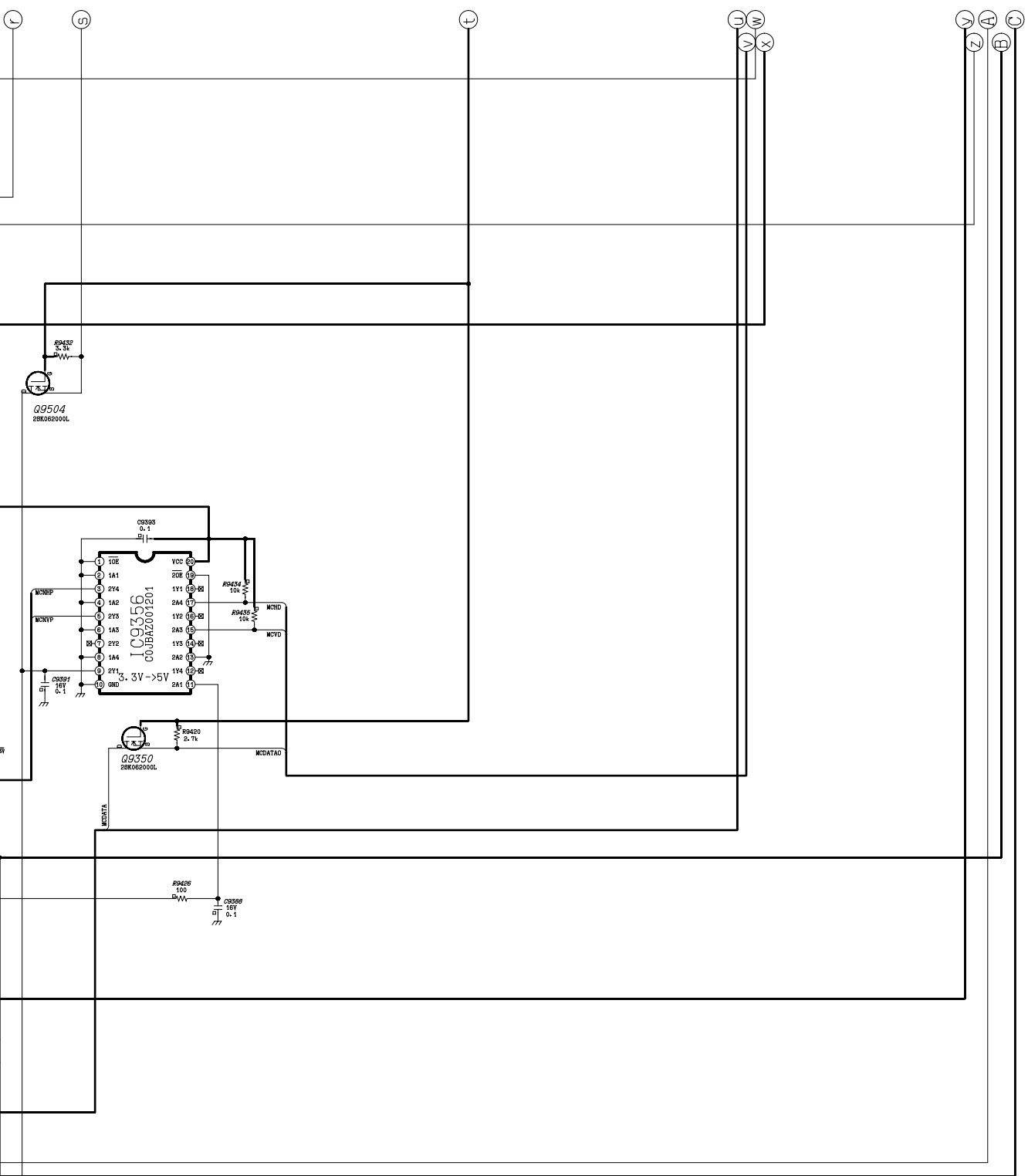
TH-50PHD5/TH-50PHW5 D1-Board (5 of 6) Schematic Diagram

D1-BOARD TZTNP01MHSB (5/6)



TH-50PHD5/TH-50PHW5 D1-Board (5 of 6) Schematic Diagram





TH-50PHD5/TH-50PHW5 D1-Board (6 of 6) Schematic Diagram

22

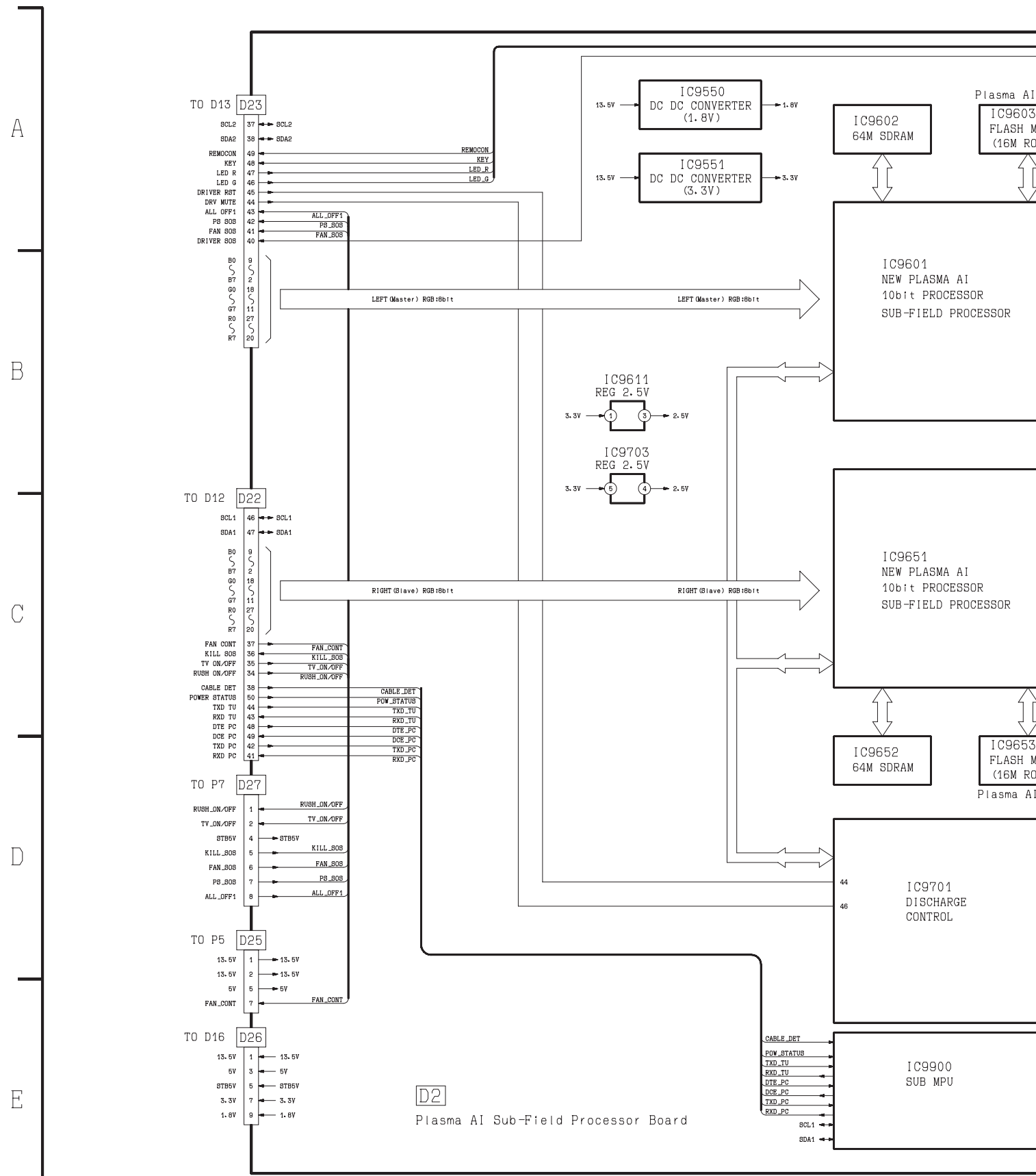
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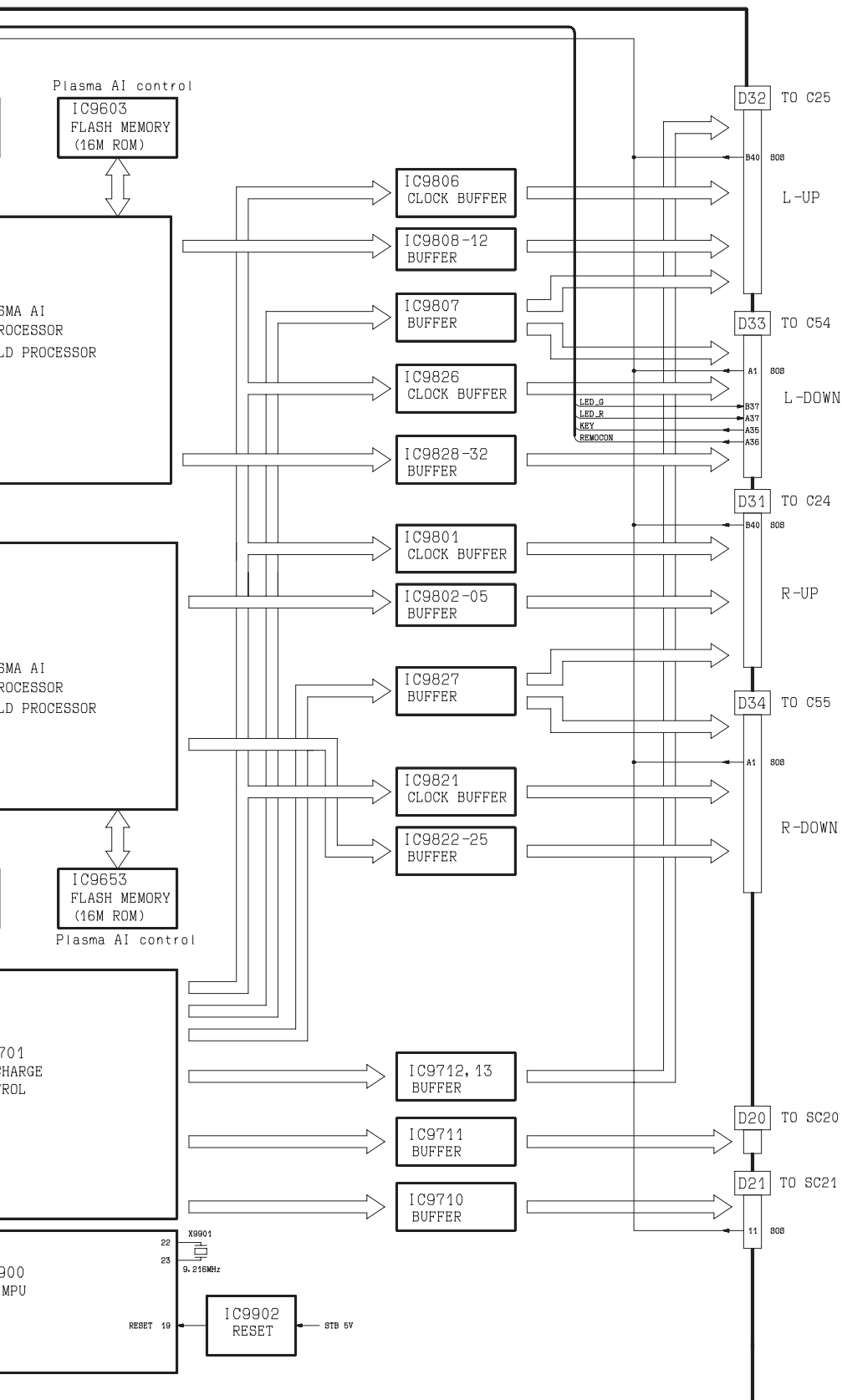
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14.20. D2-Board Block Diagram

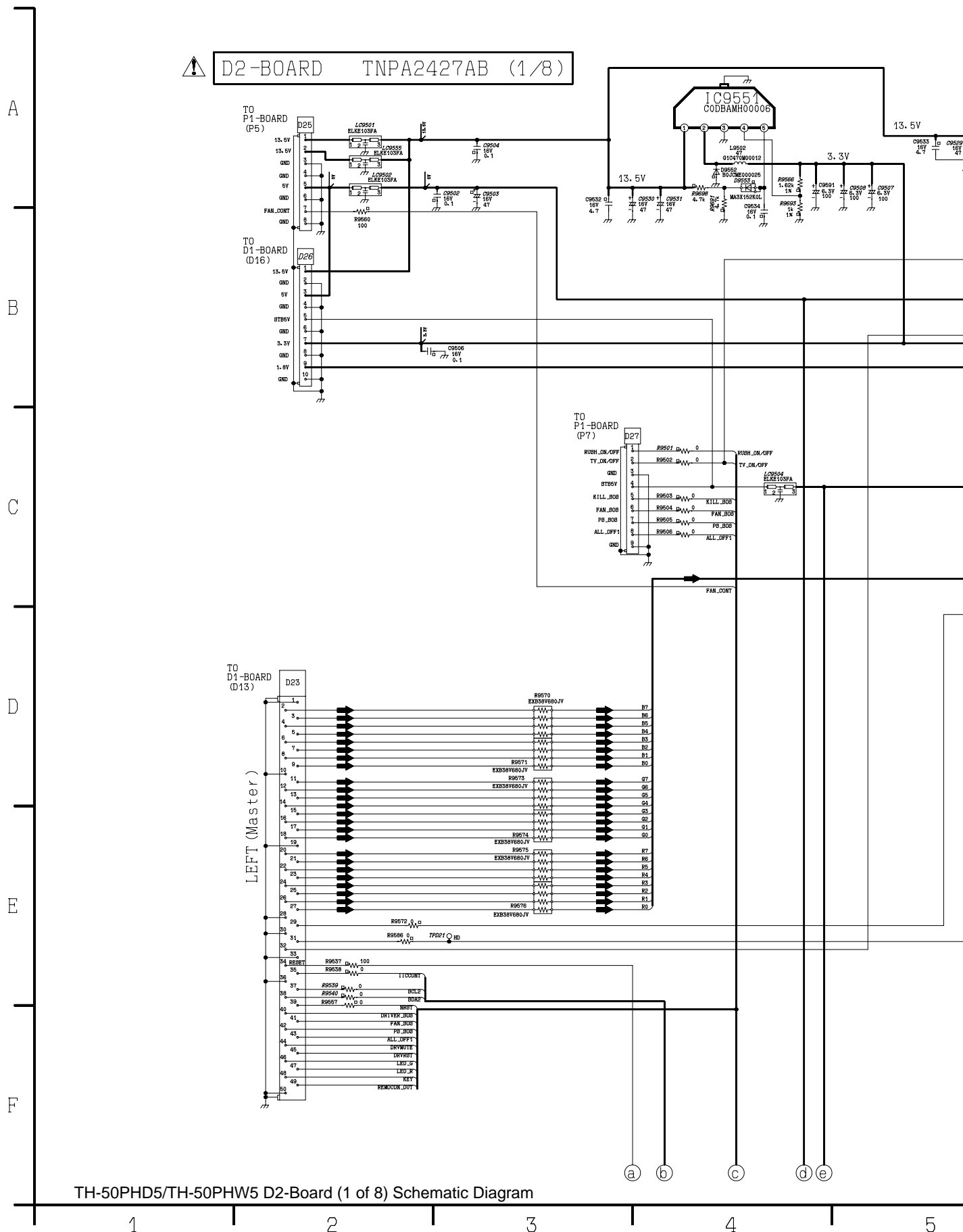


TH-50PHD5/TH-50PHW5 D2-Board Block Diagram



TH-50PHD5/TH-50PHW5 D2-Board Block Diagram

14.21. D2-Board (1 of 8) Schematic Diagram

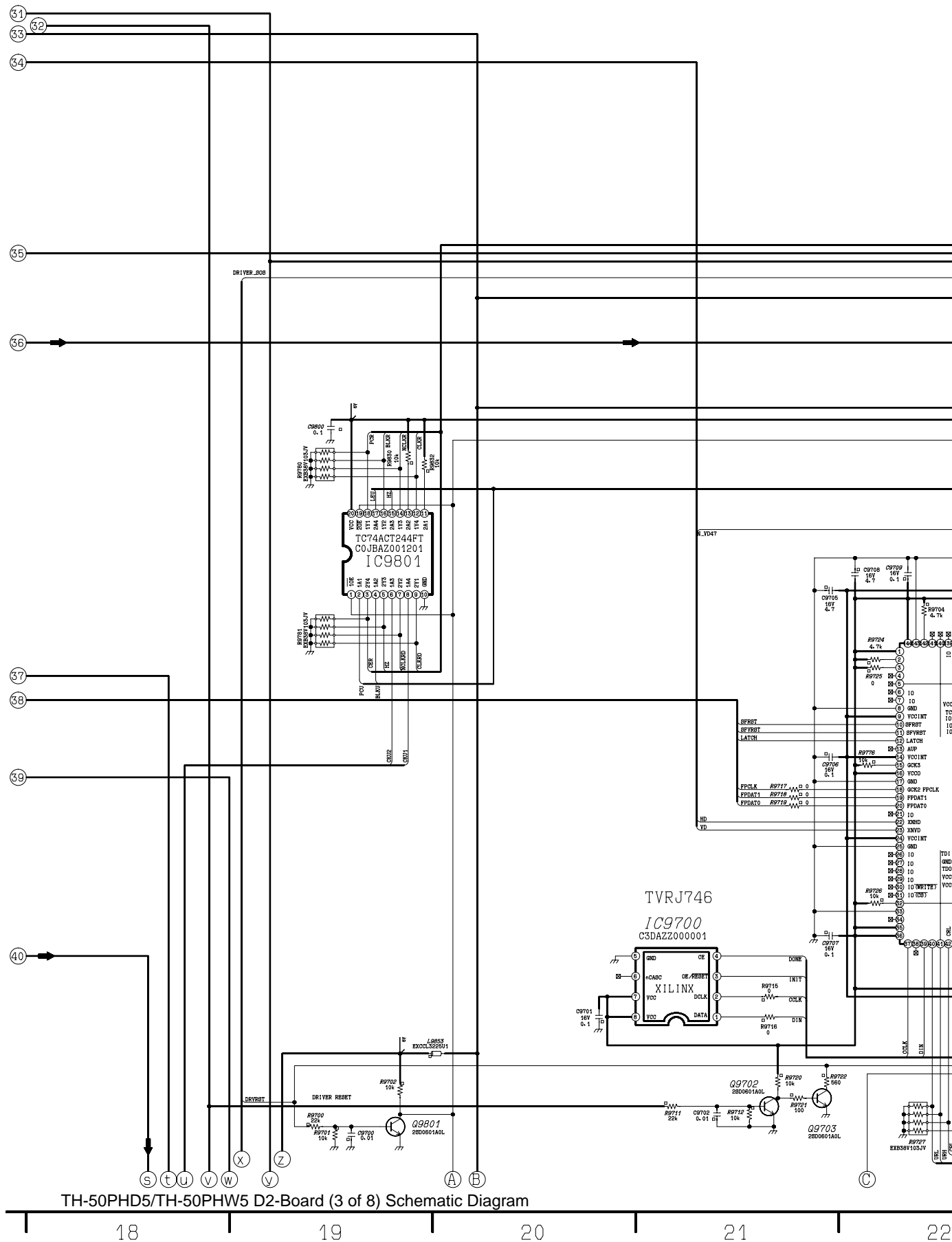






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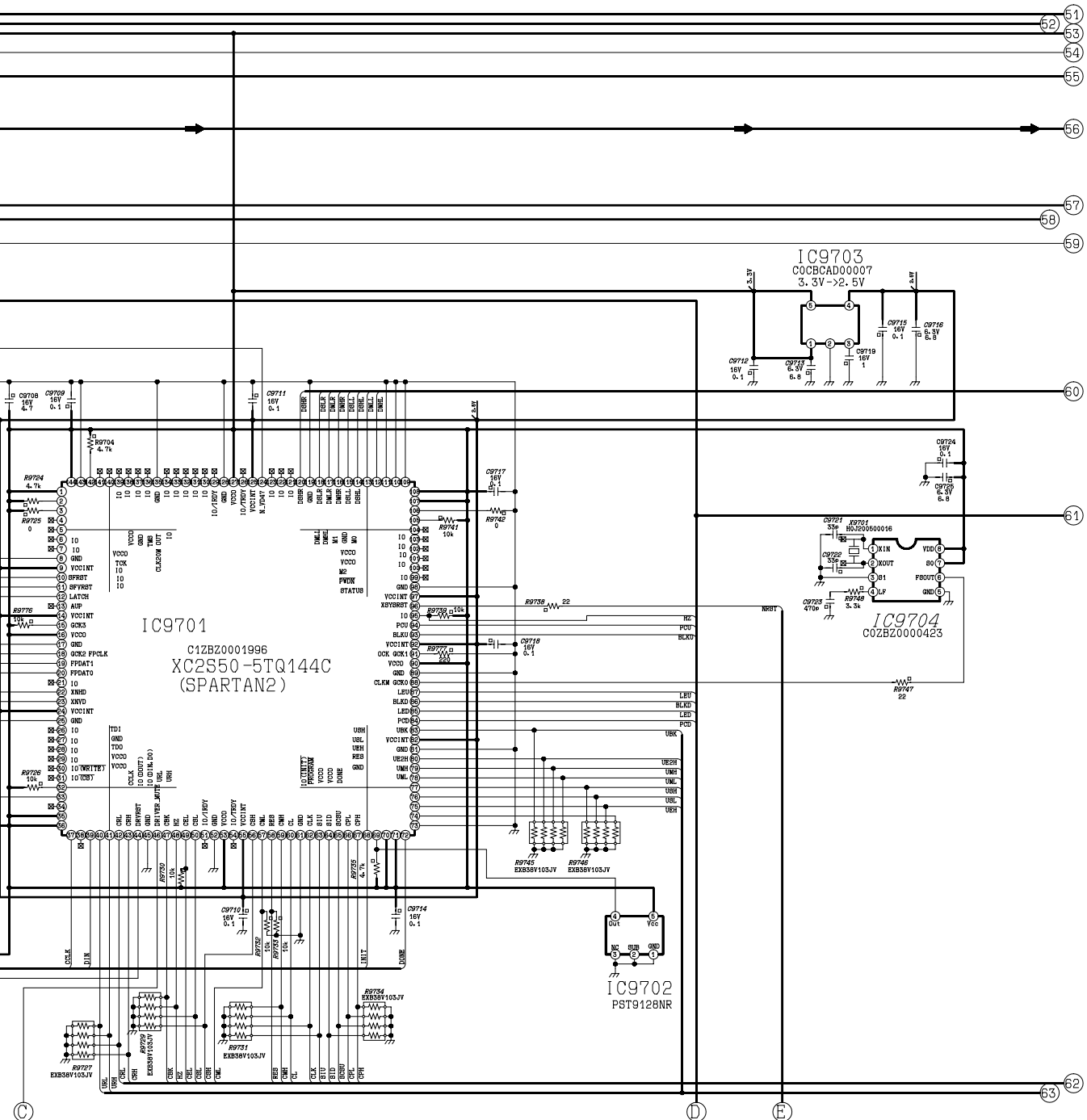
14.23. D2-Board (3 of 8) Schematic Diagram





D2-BOARD

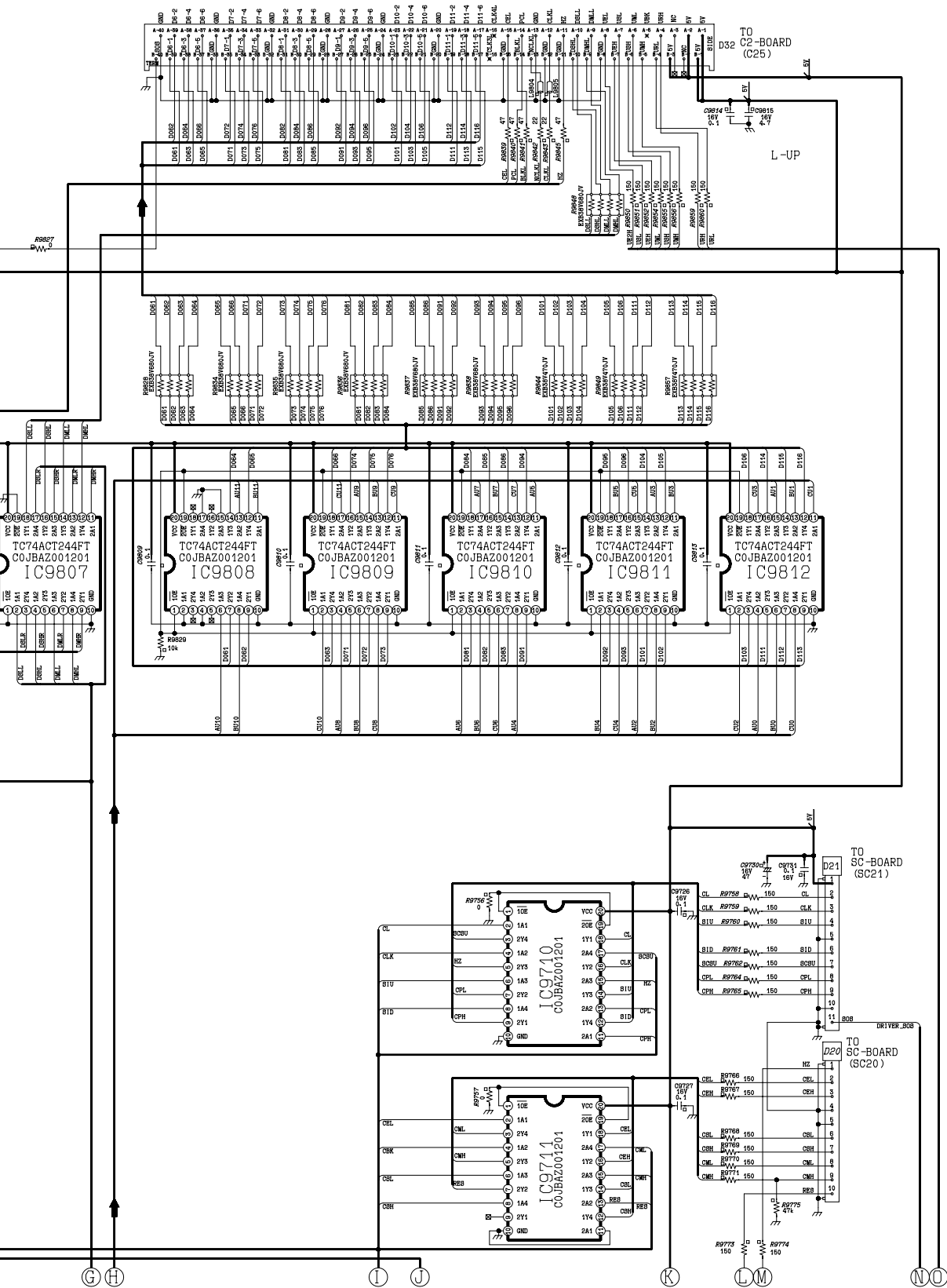
TNPA2427AB (3/8)



TH-50PHD5/TH-50PHW5 D2-Board (3 of 8) Schematic Diagram



Ⓒ ⒣



TH-50PHD5/TH-50PHW5 D2-Board (4 of 8) Schematic Diagram

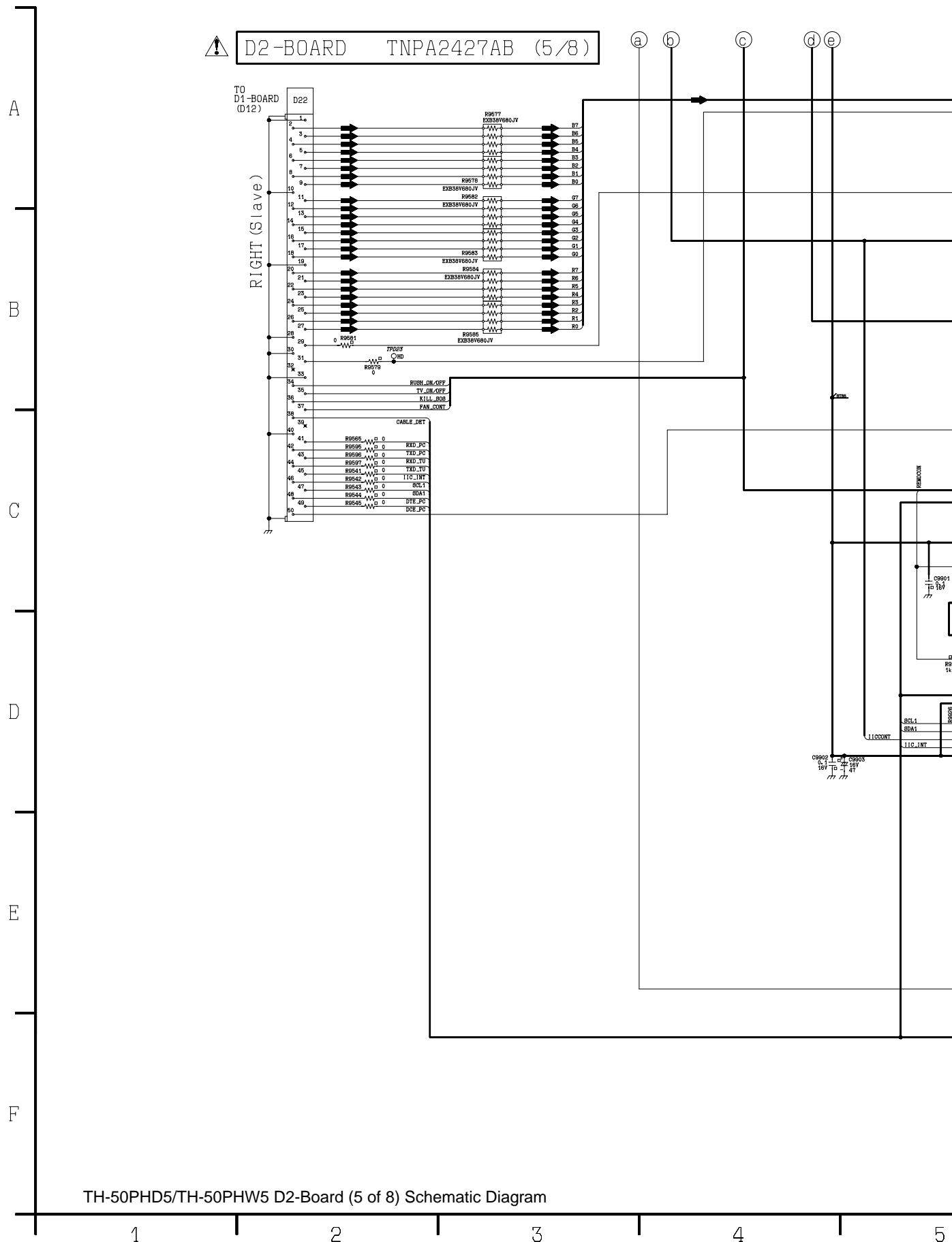
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32

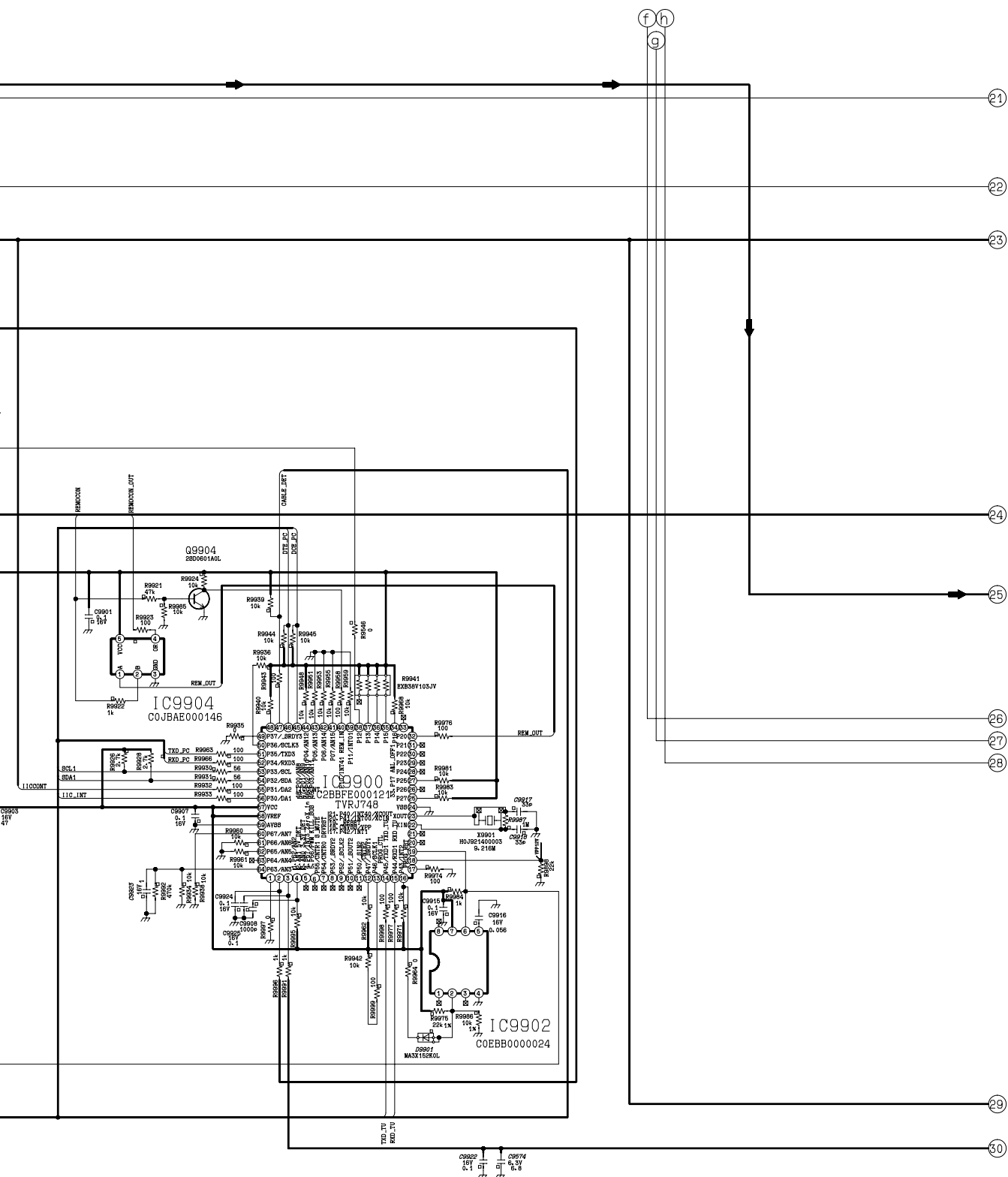
33

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14.25. D2-Board (5 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (5 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (5 of 8) Schematic Diagram



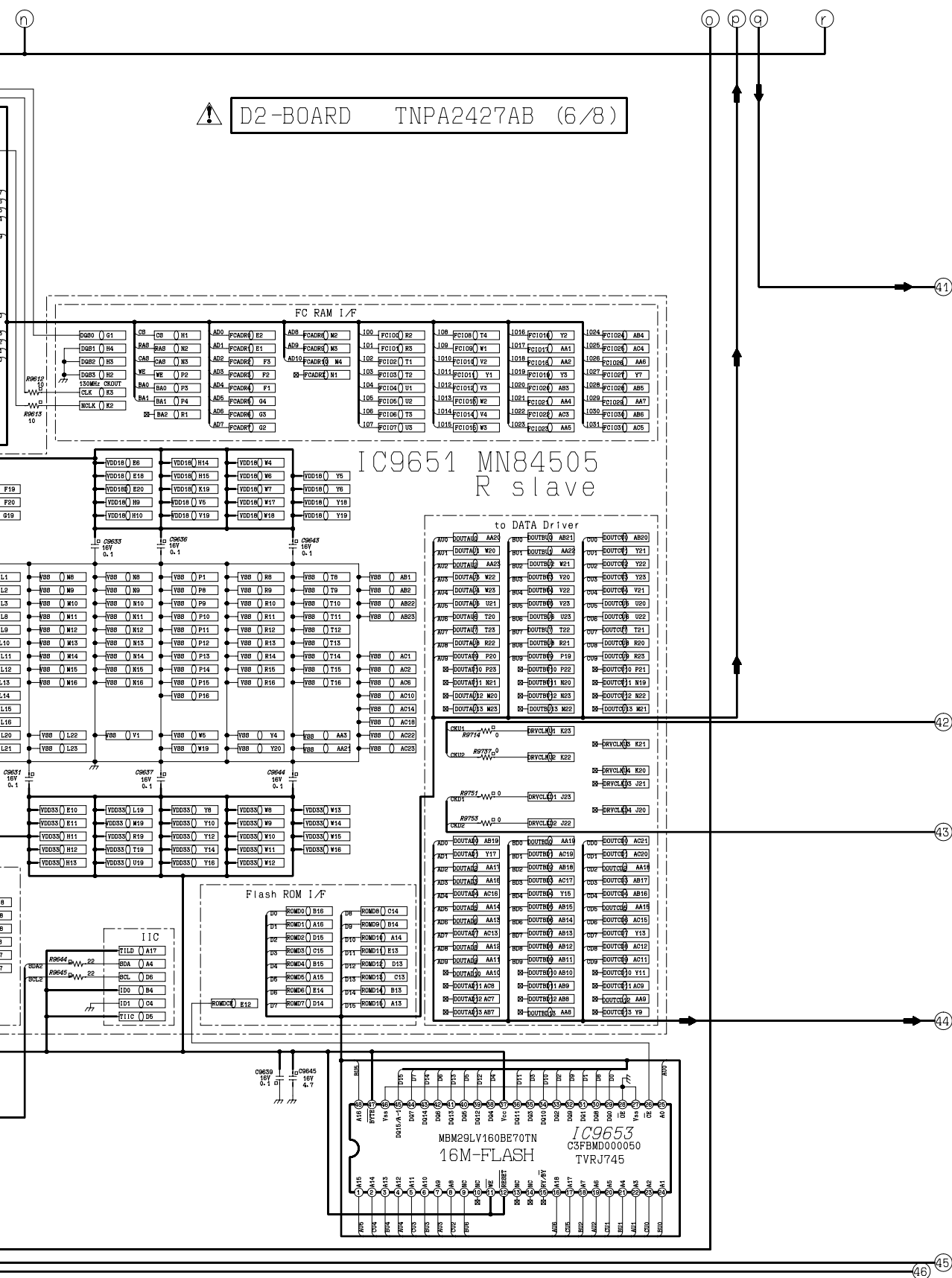
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TH-50PHD5/TH-50PHW5 D2-Board (6 of 8) Schematic Diagram

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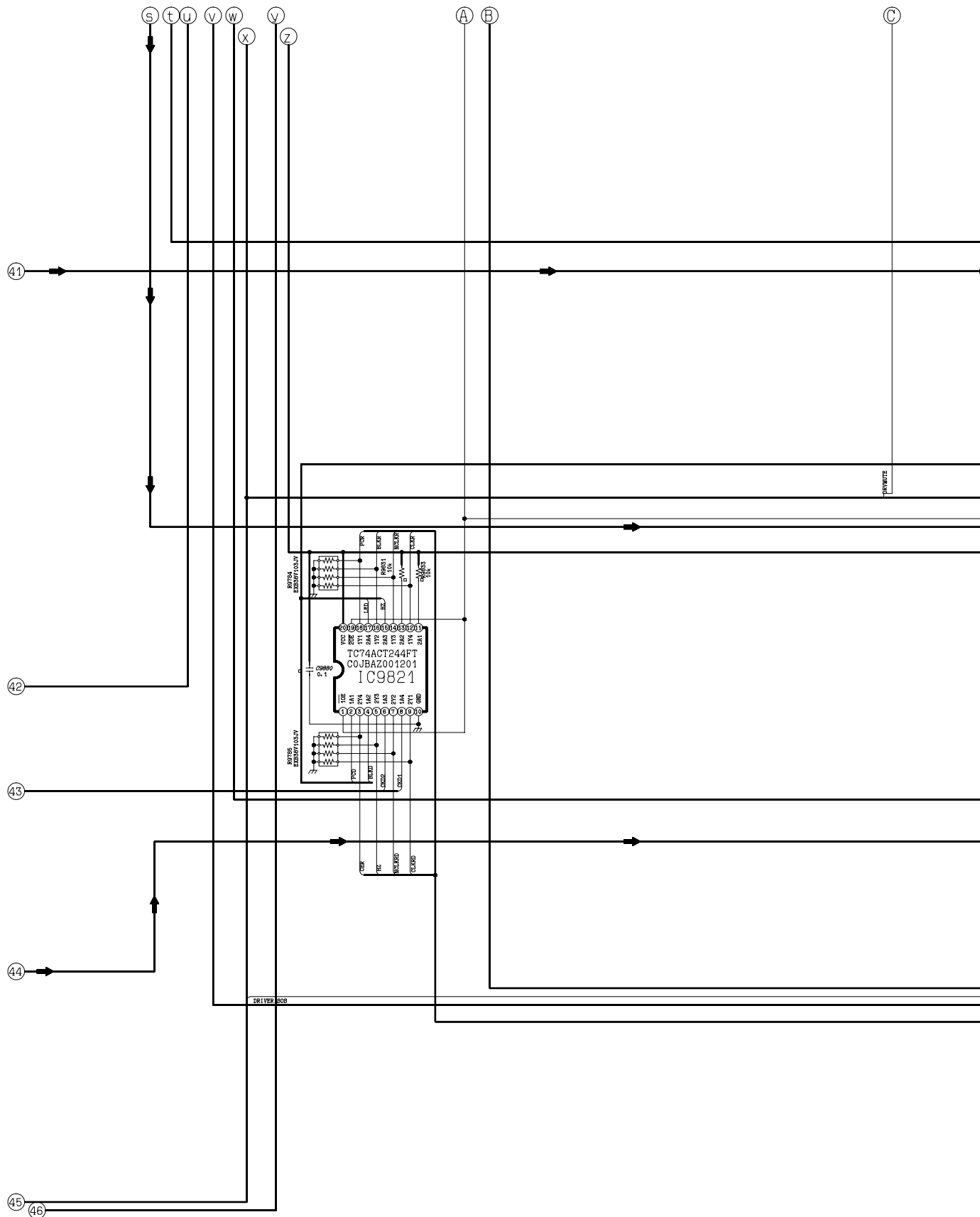
15

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14.27. D2-Board (7 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (7 of 8) Schematic Diagram

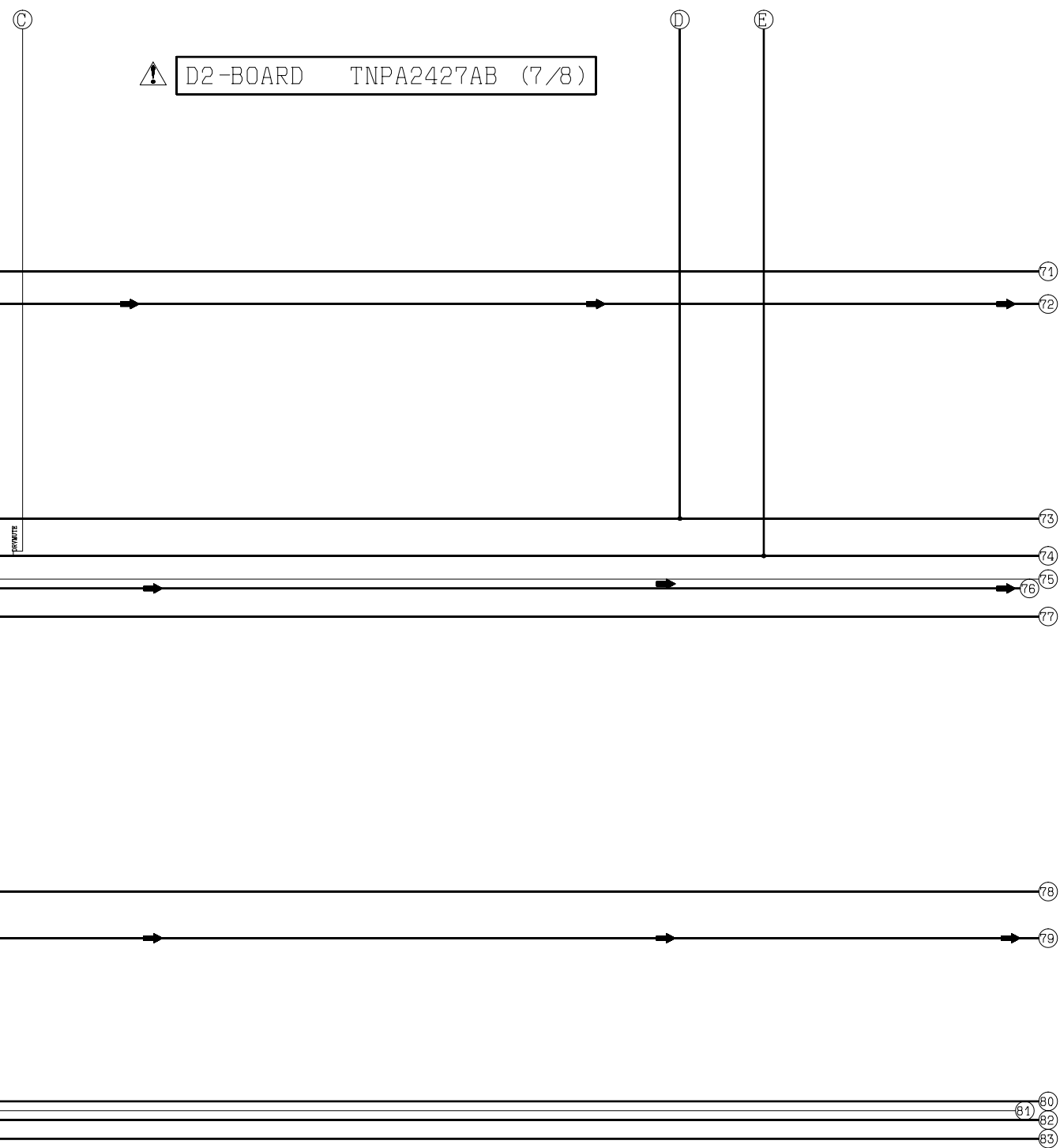
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TH-50PHD5/TH-50PHW5 D2-Board (7 of 8) Schematic Diagram

22

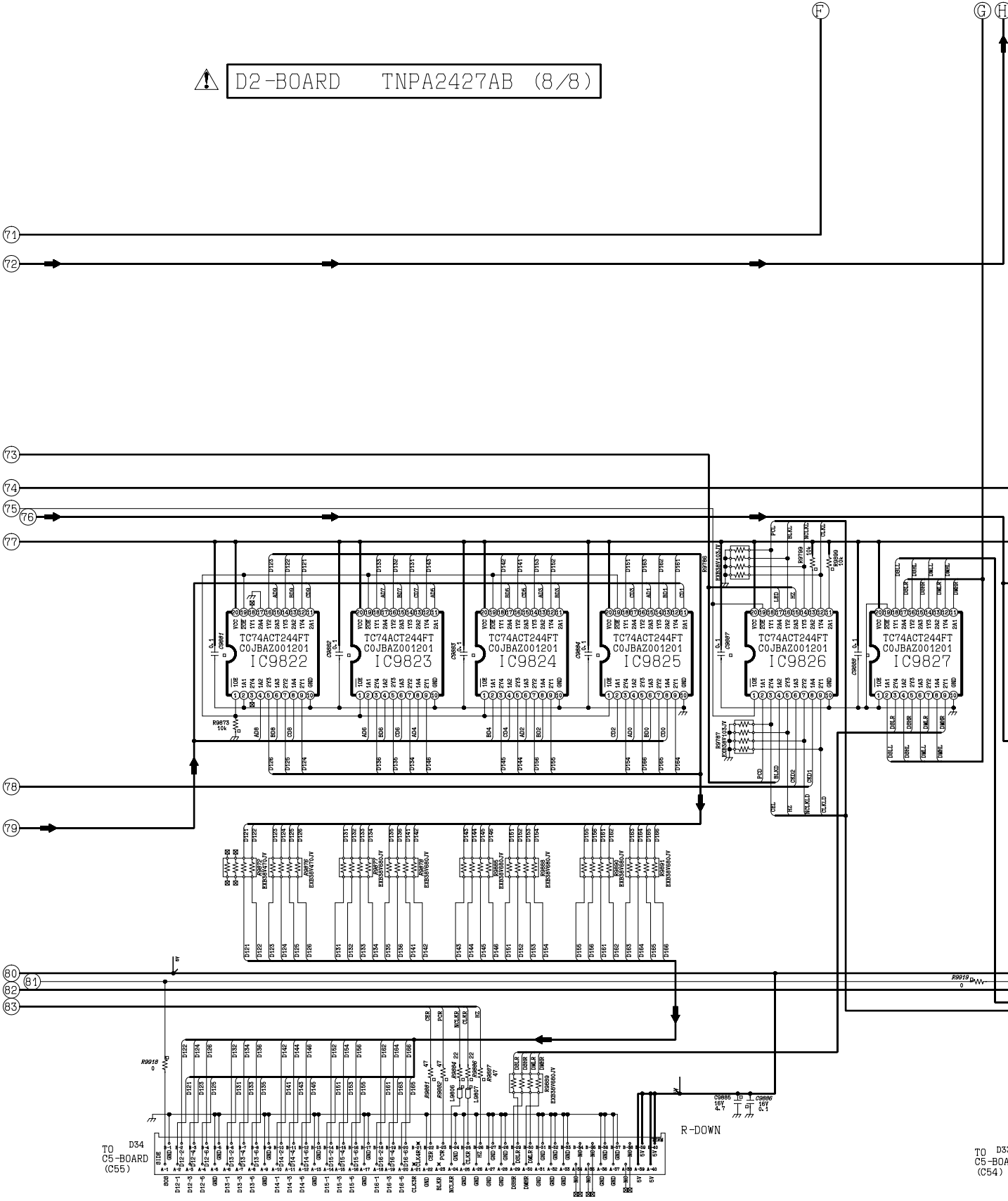
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14.28. D2-Board (8 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (8 of 8) Schematic Diagram

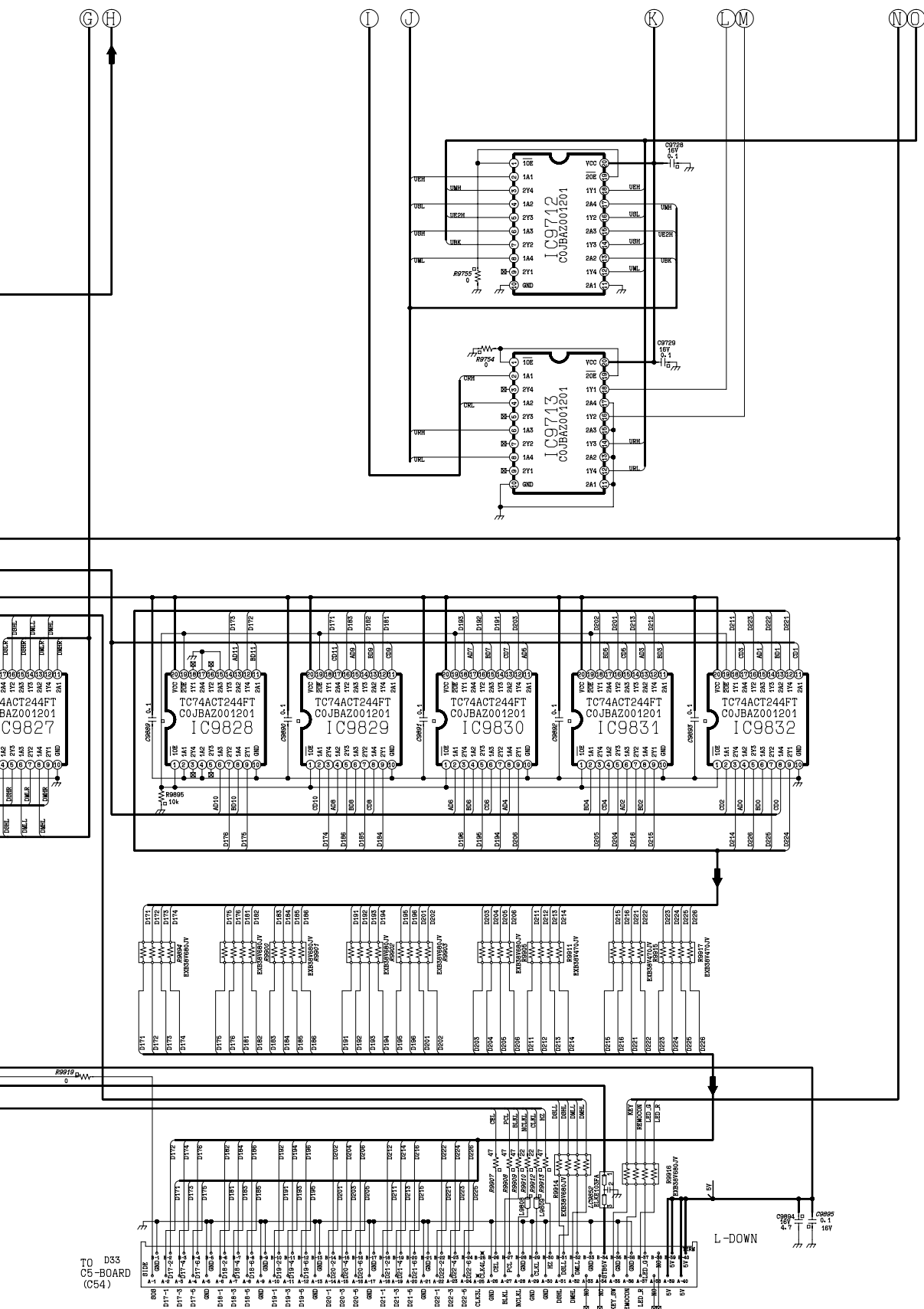
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TH-50PHD5/TH-50PHW5 D2-Board (8 of 8) Schematic Diagram

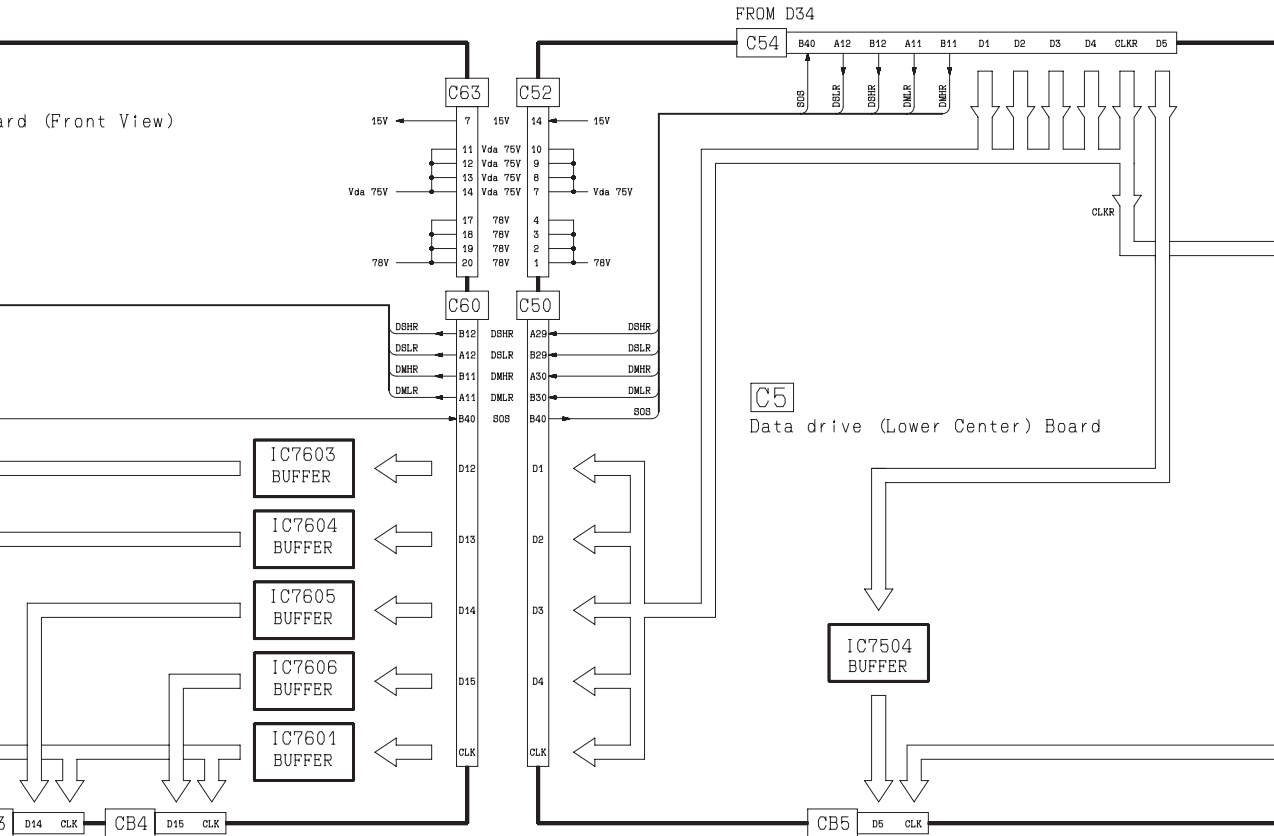
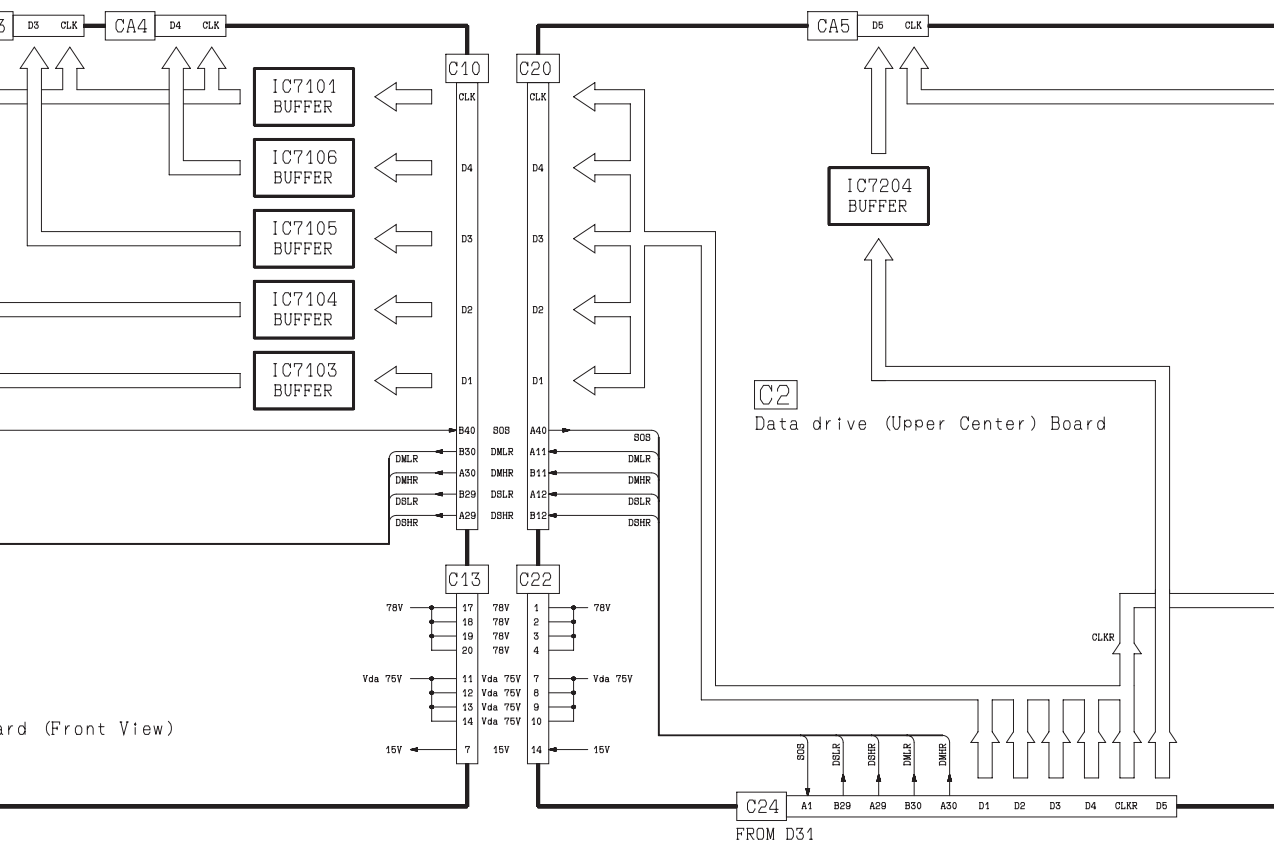
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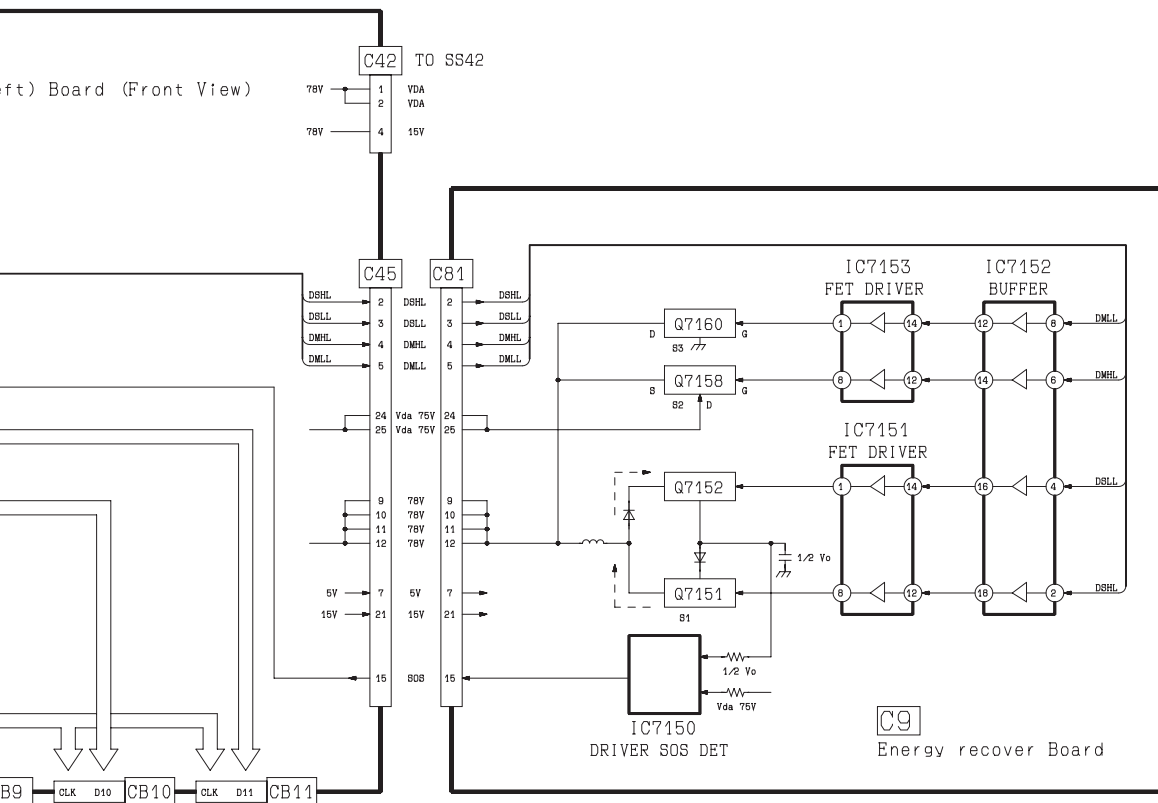
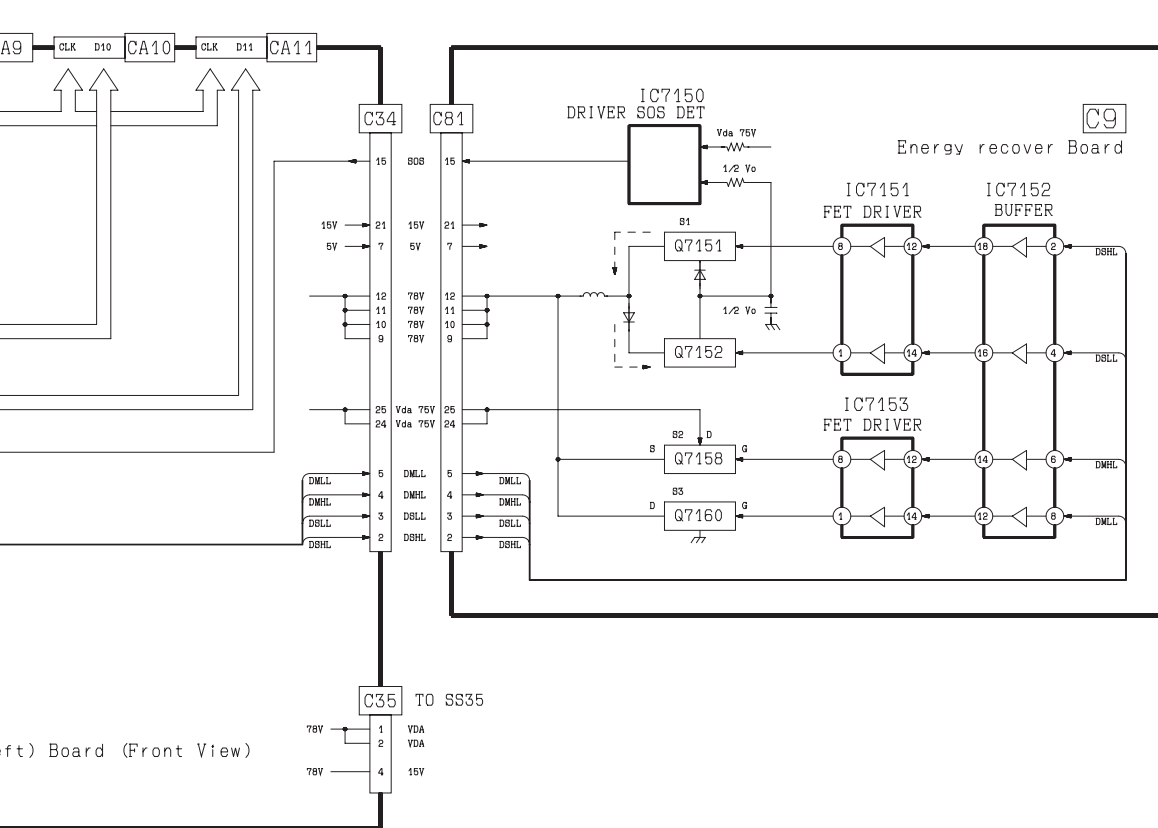




TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (1 of 2) Block Diagram

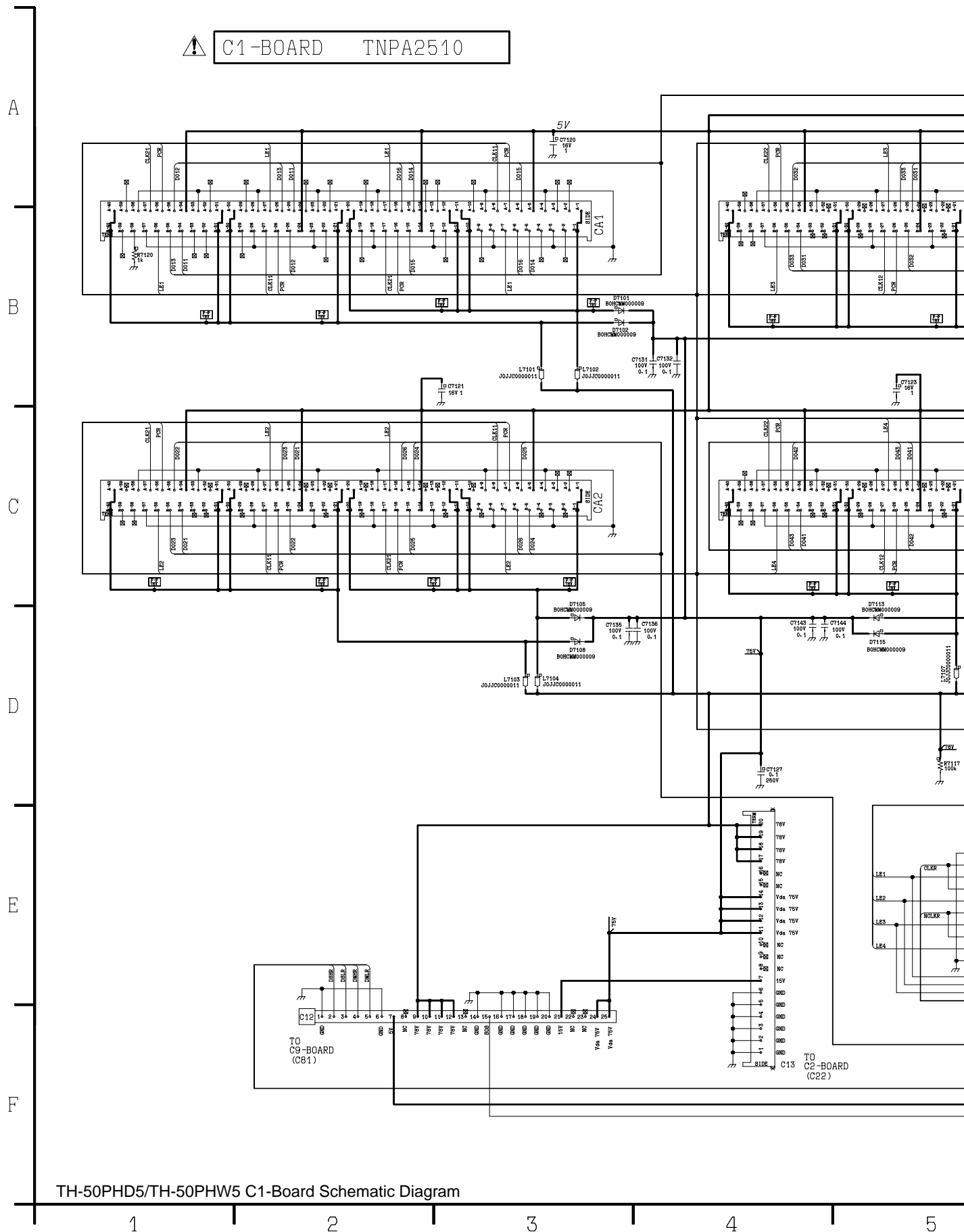


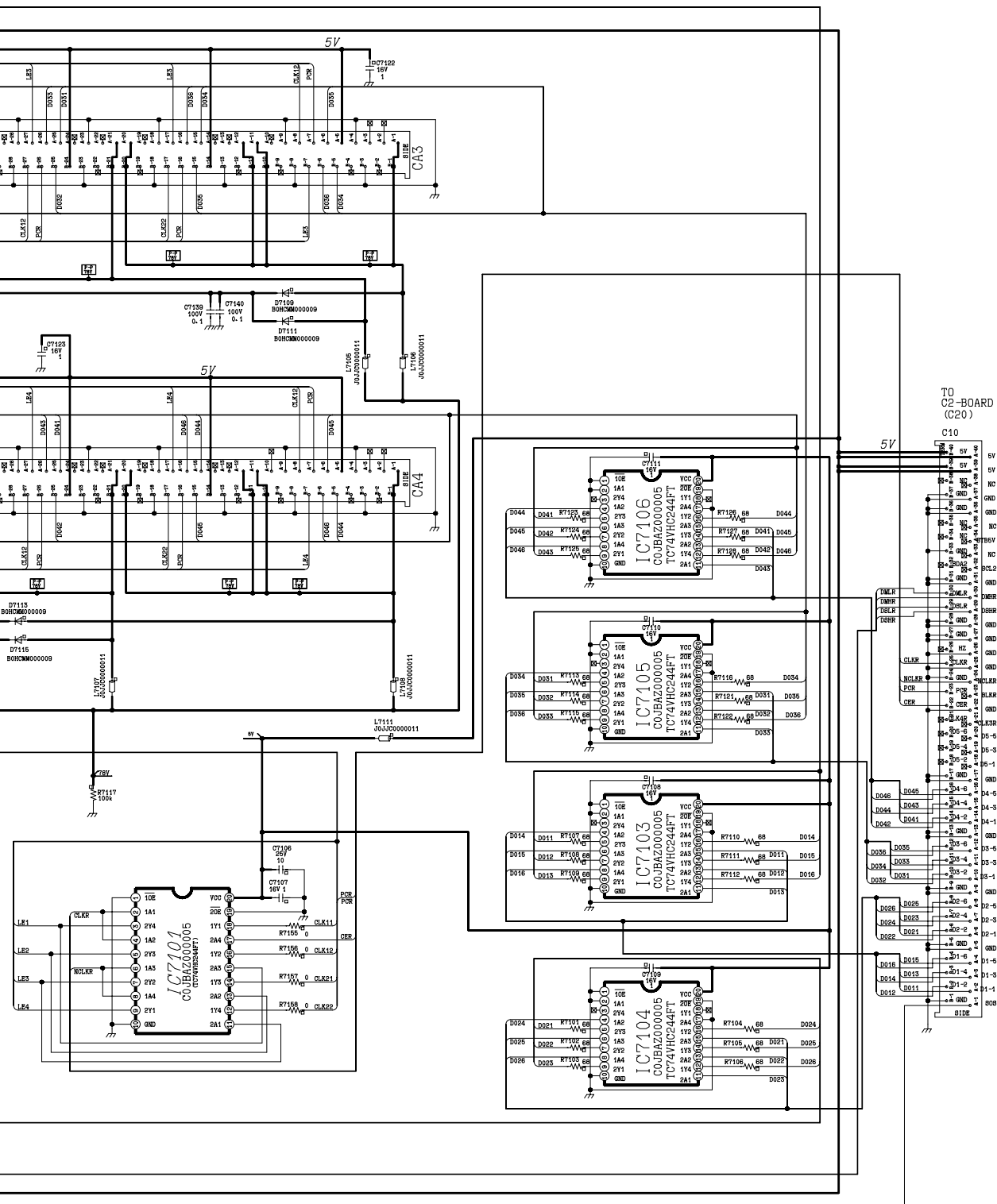
8



TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (2 of 2) Block Diagram

14.31. C1-Board Schematic Diagram





TH-50PHD5/TH-50PHW5 C1-Board Schematic Diagram

5

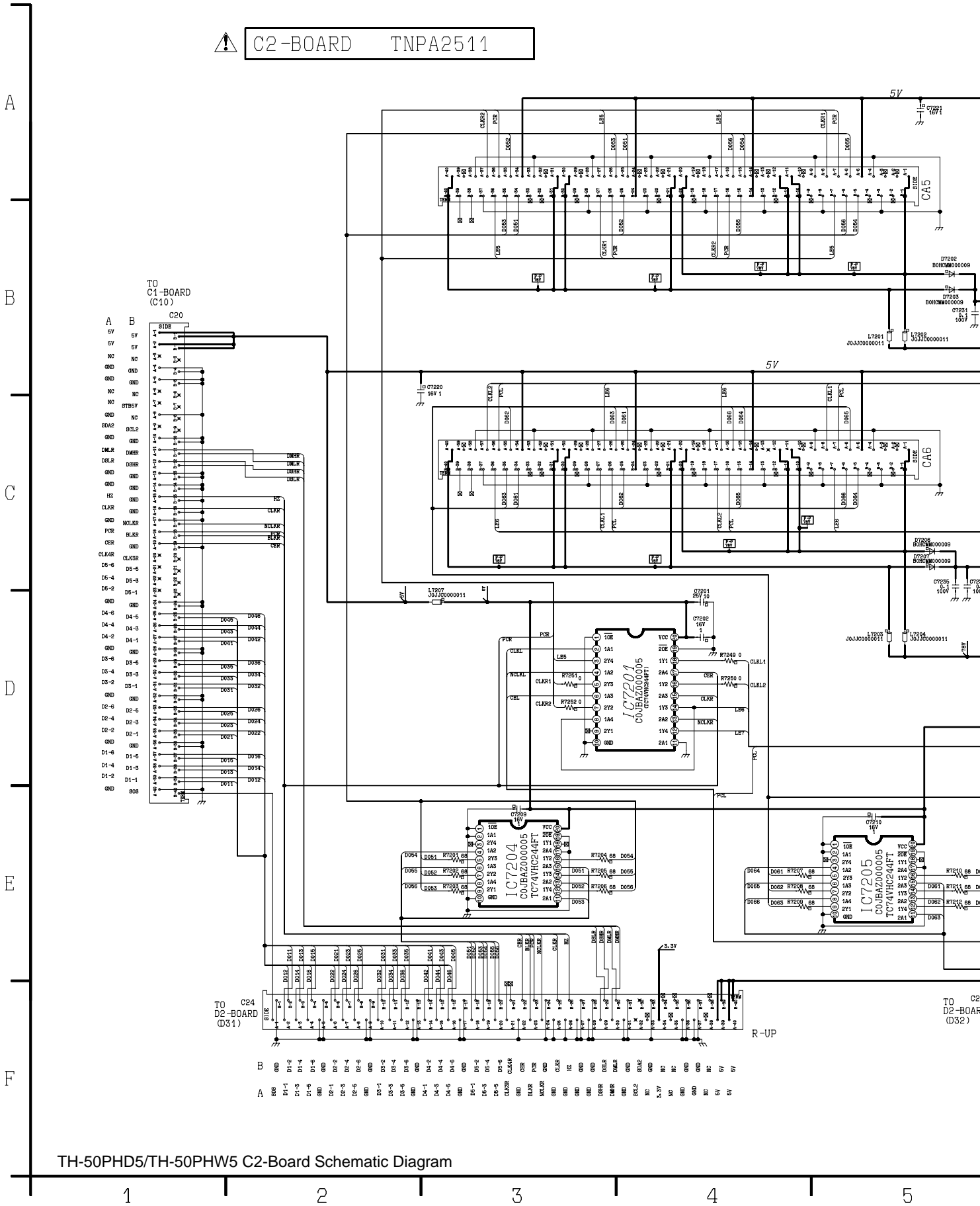
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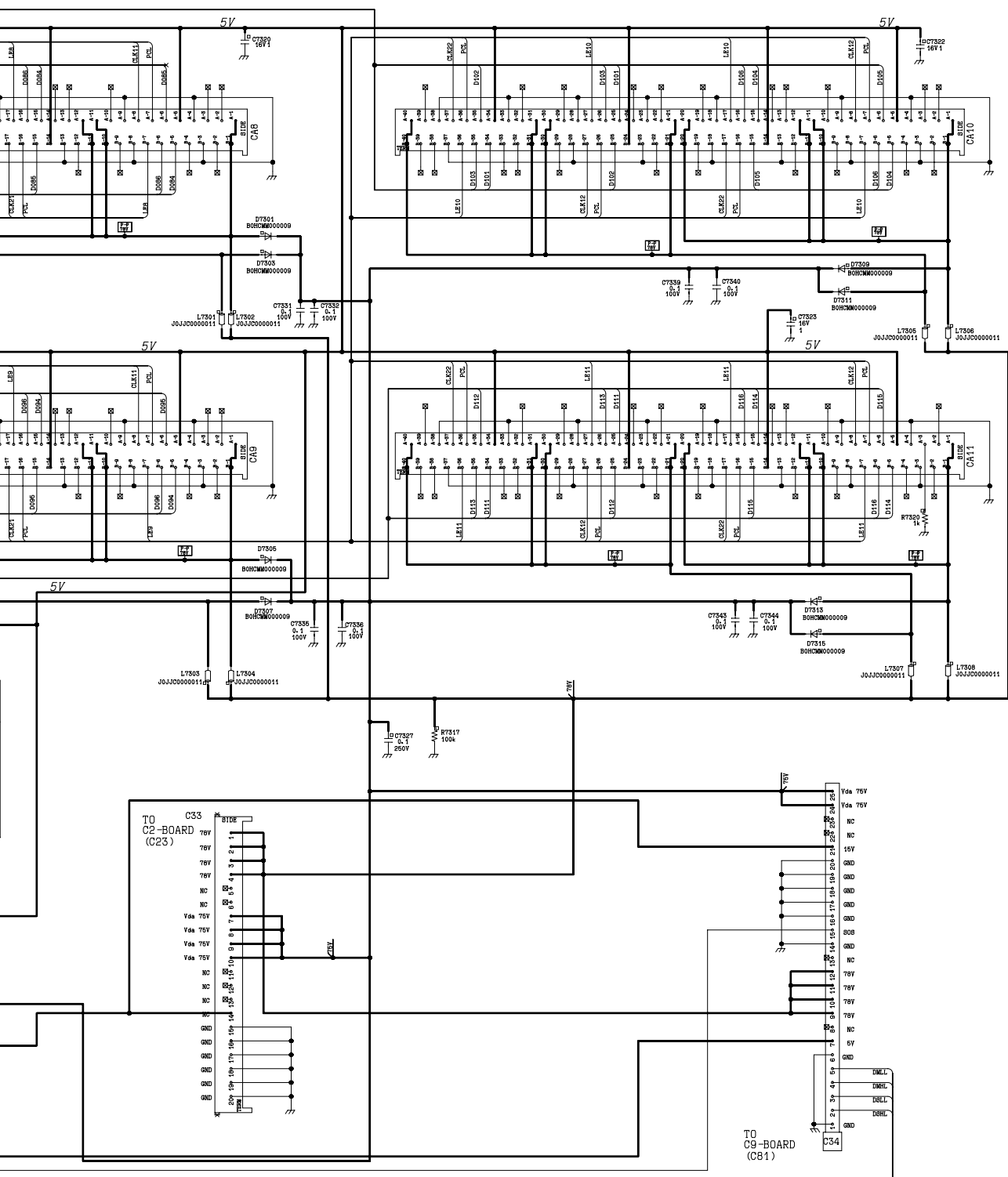
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14.32. C2-Board Schematic Diagram







TH-50PHD5/TH-50PHW5 C3-Board Schematic Diagram

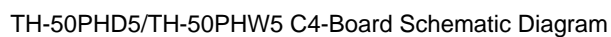
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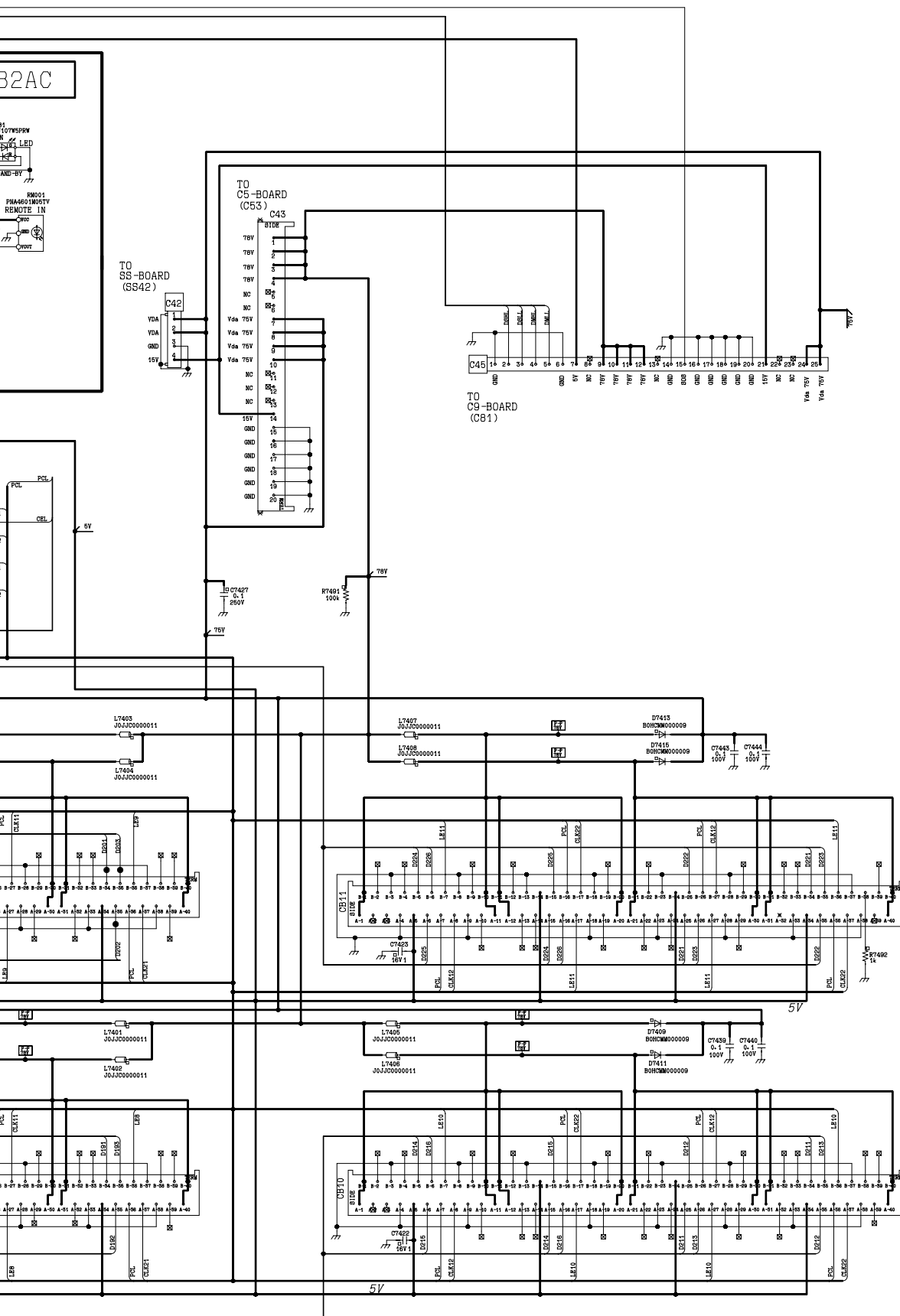
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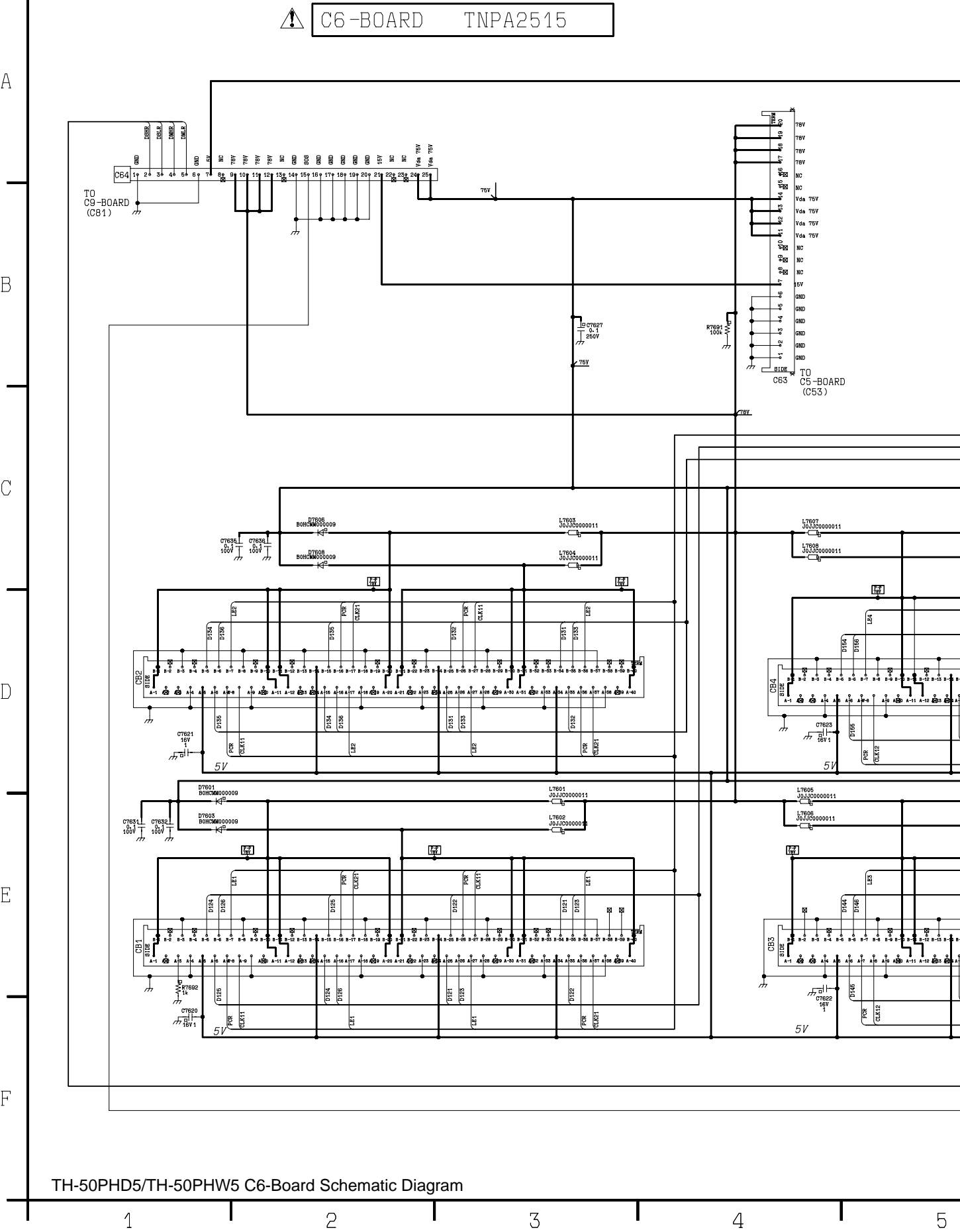




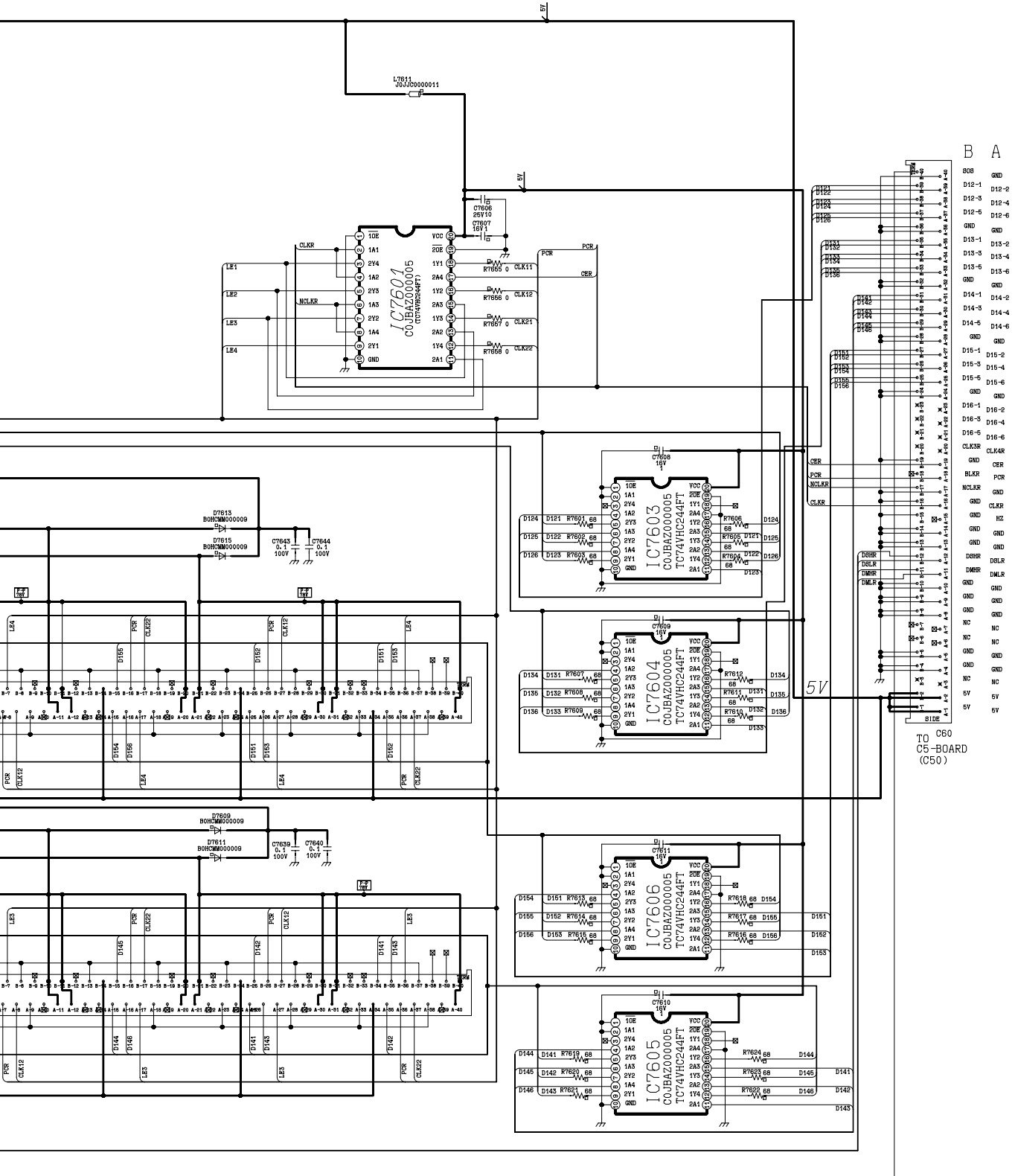
TH-50PHD5/TH-50PHW5 C4-Board Schematic Diagram



14.36. C6-Board Schematic Diagram

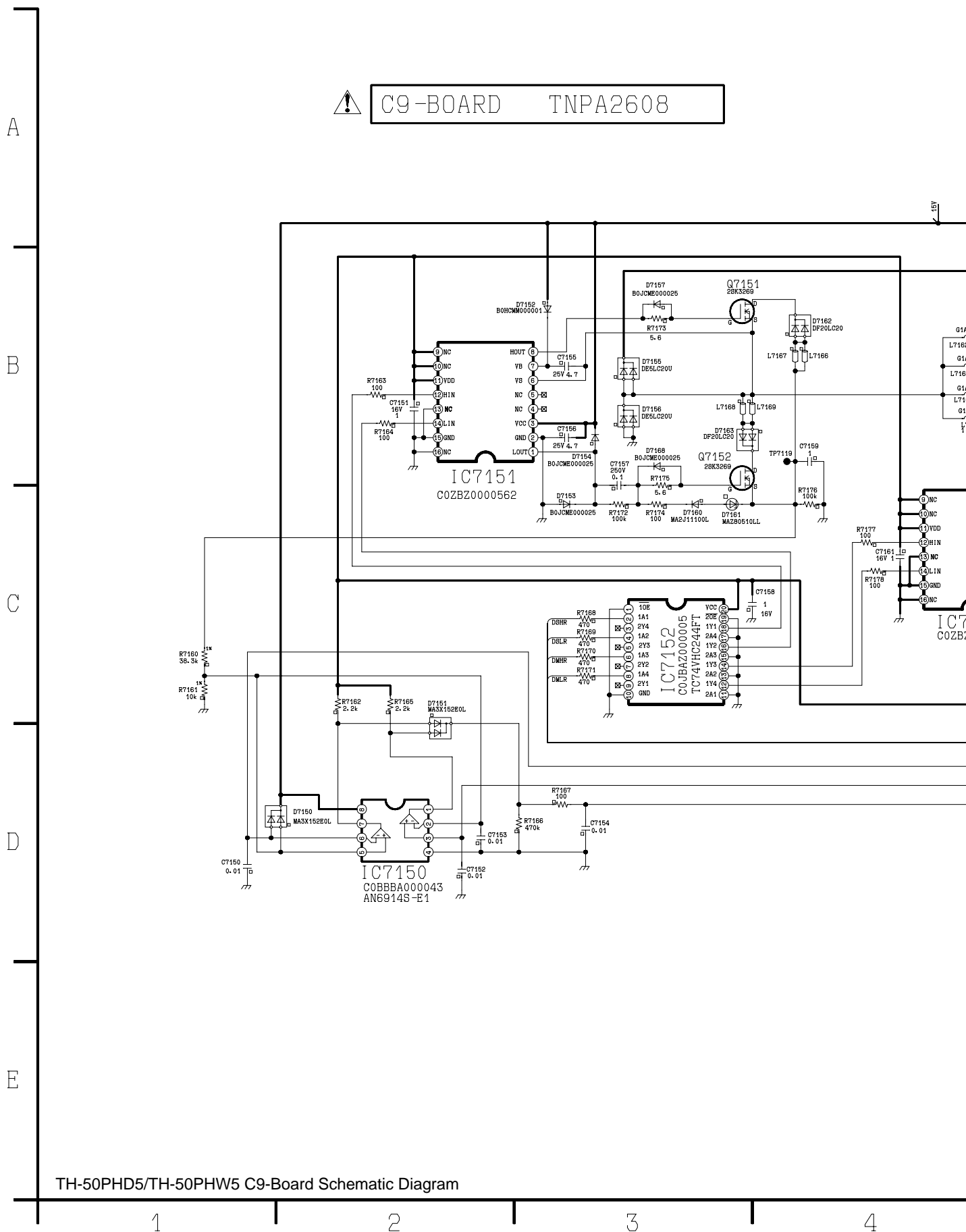


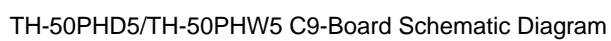
TH-50PHD5/TH-50PHW5 C6-Board Schematic Diagram



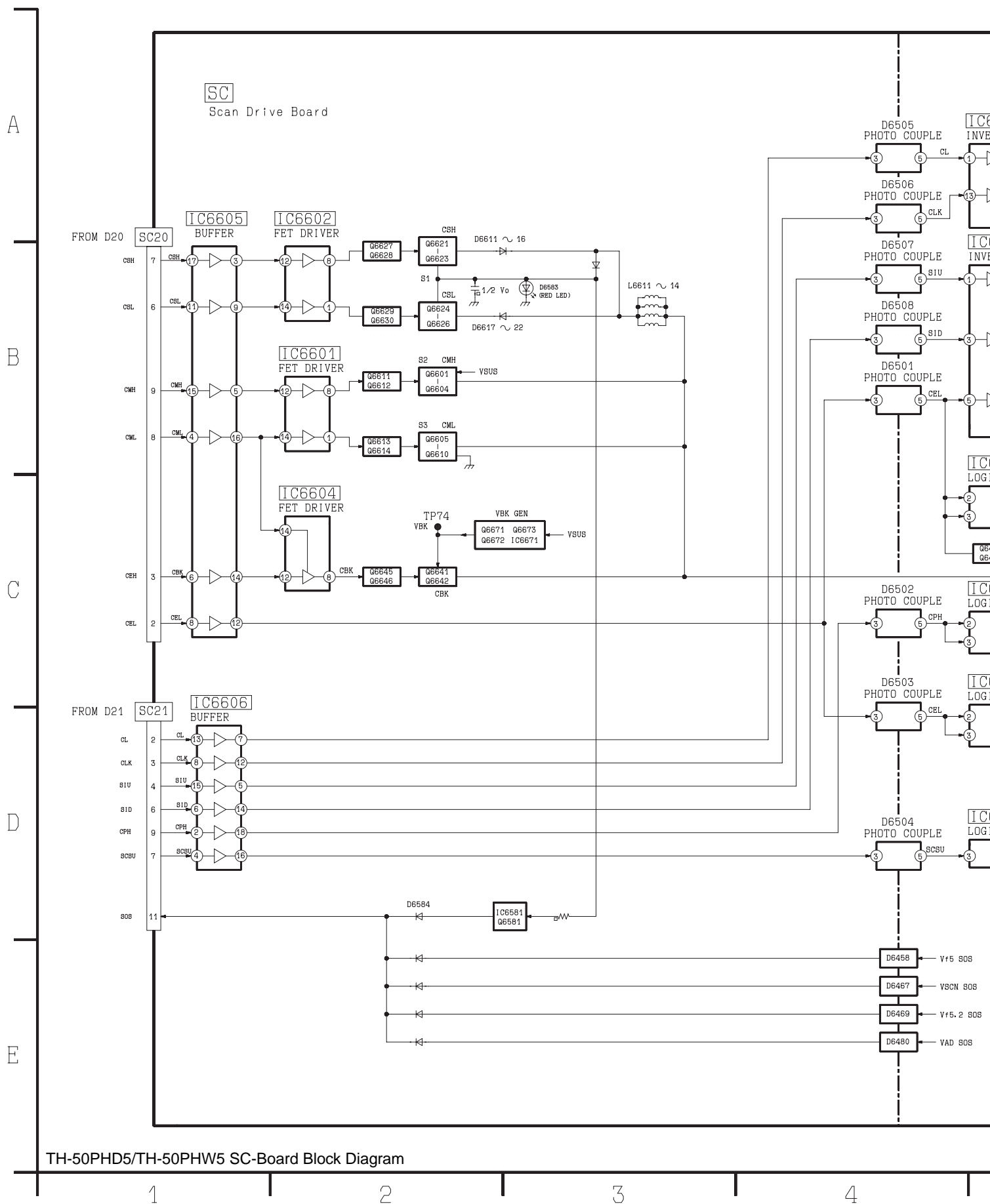
TH-50PHD5/TH-50PHW5 C6-Board Schematic Diagram

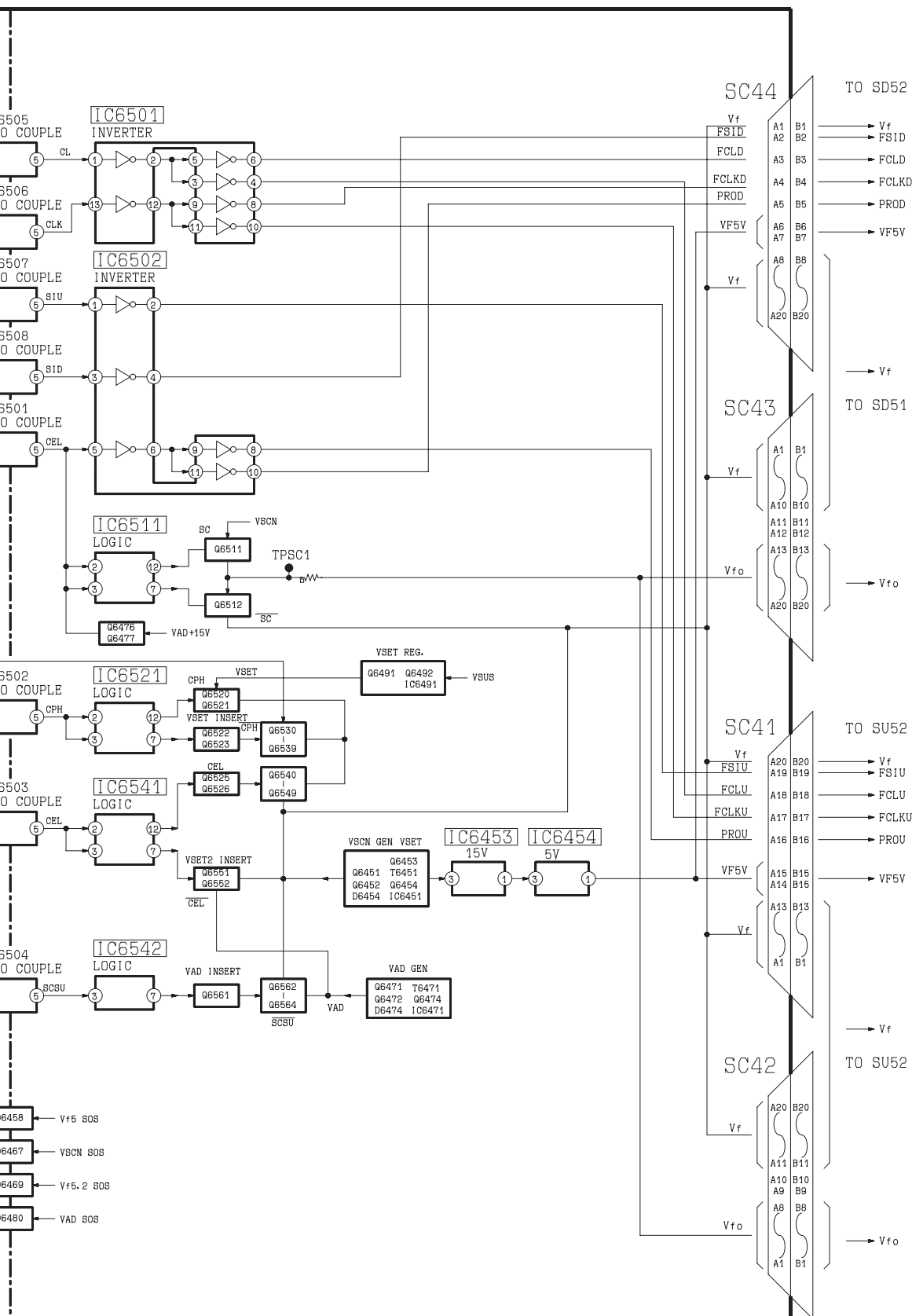
14.37. C9-Board Schematic Diagram





14.38. SC-Board Block Diagram





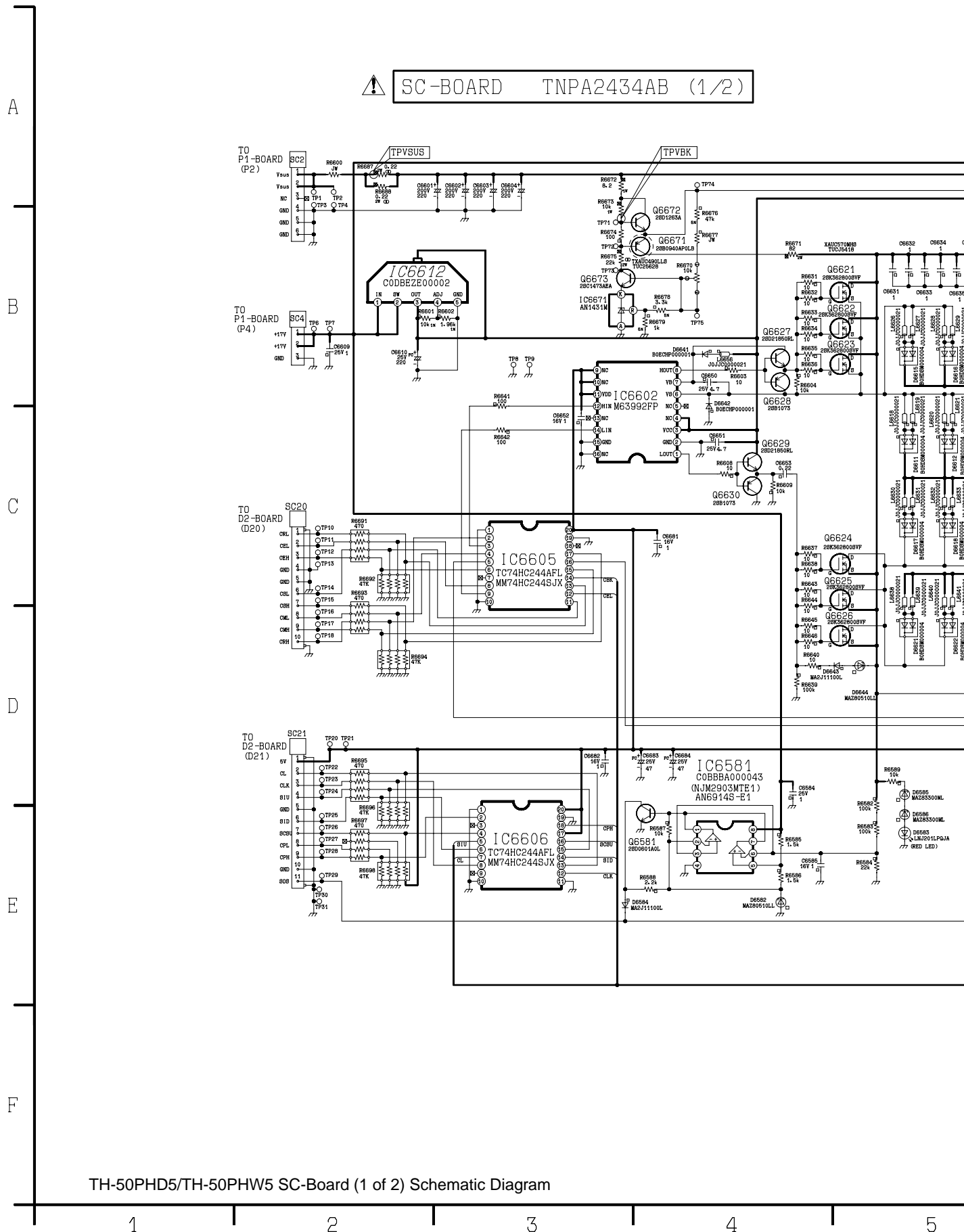
TH-50PHD5/TH-50PHW5 SC-Board Block Diagram

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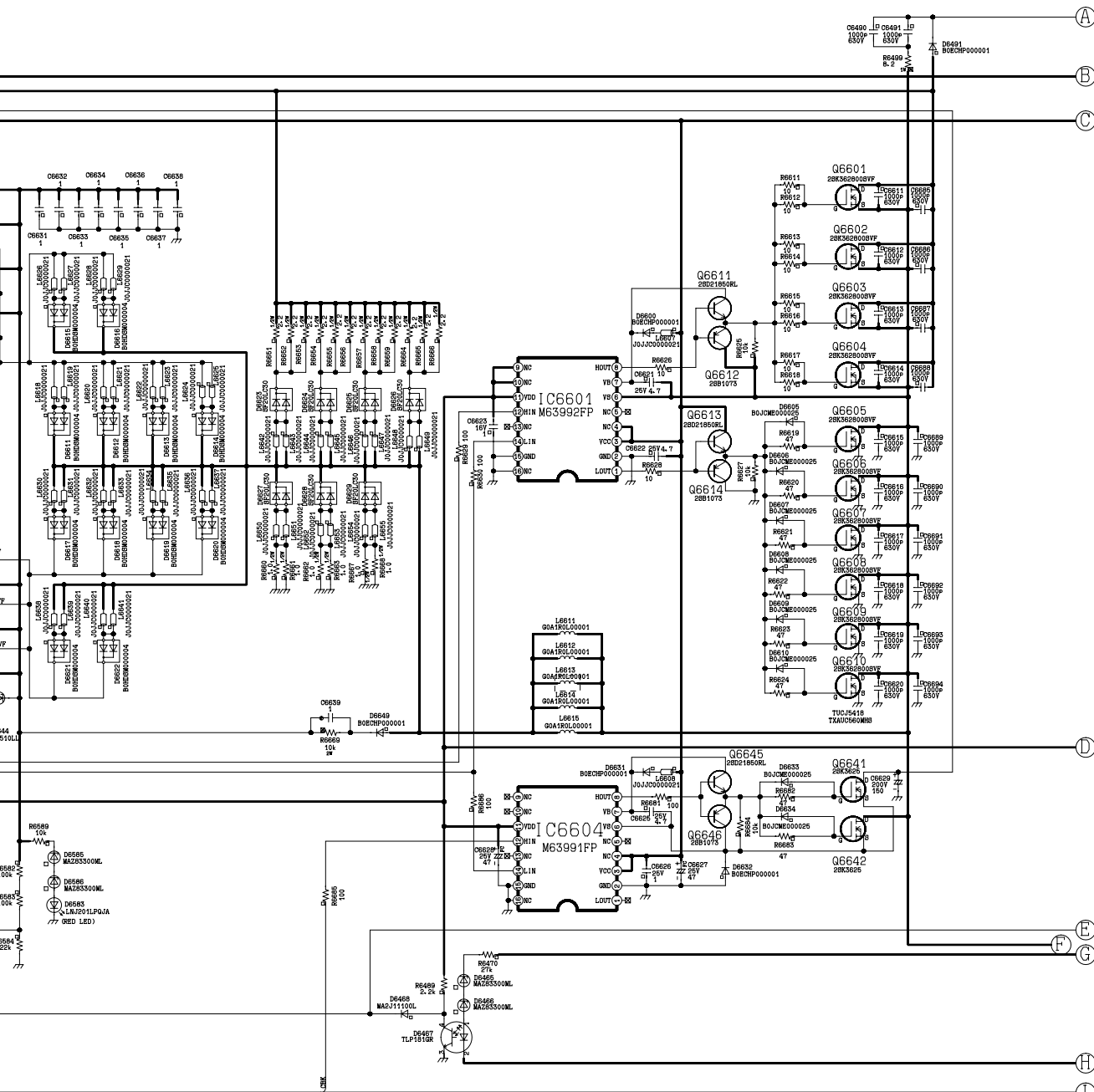
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14.39. SC-Board (1 of 2) Schematic Diagram



TH-50PHD5/TH-50PHW5 SC-Board (1 of 2) Schematic Diagram



TH-50PHD5/TH-50PHW5 SC-Board (1 of 2) Schematic Diagram

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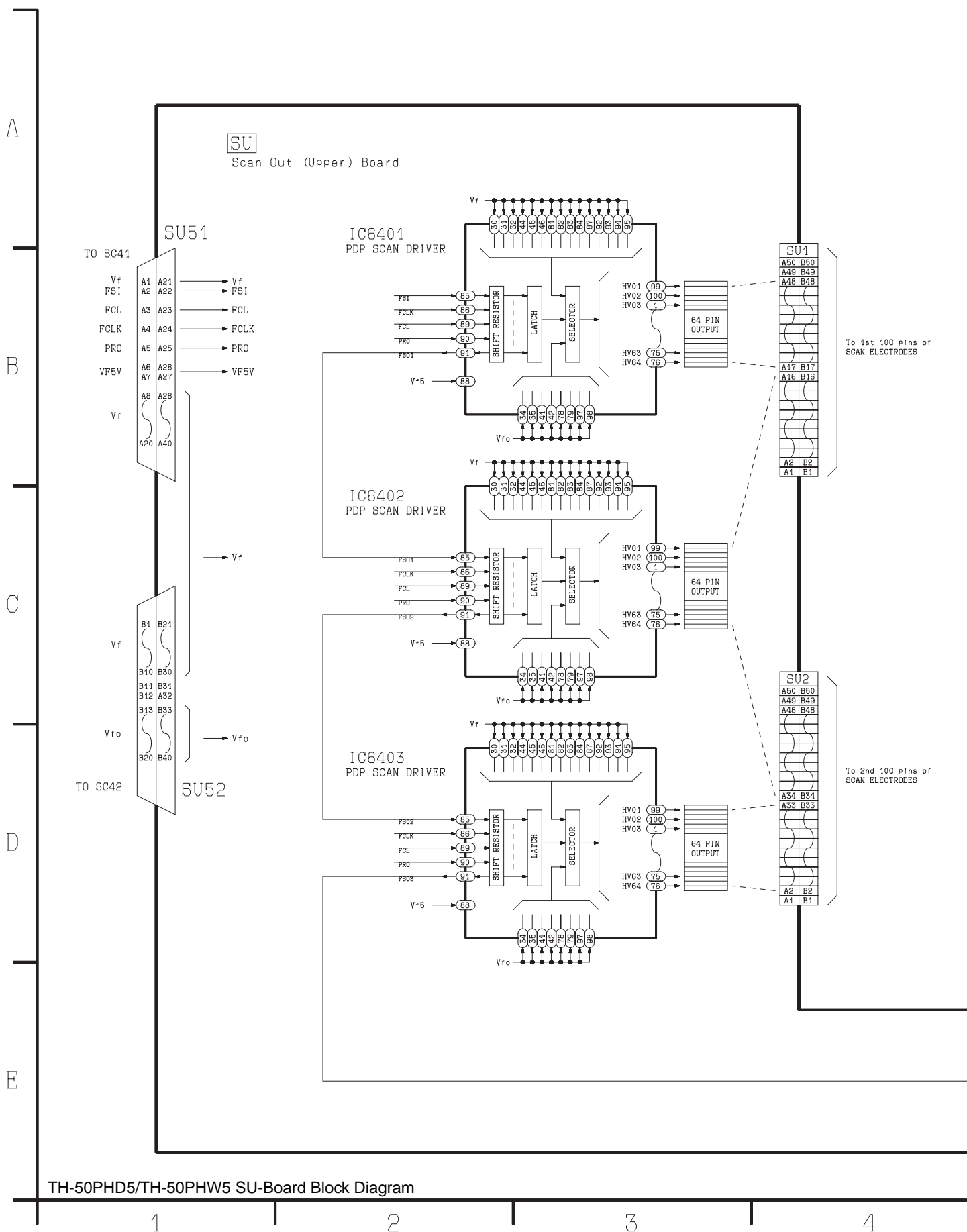
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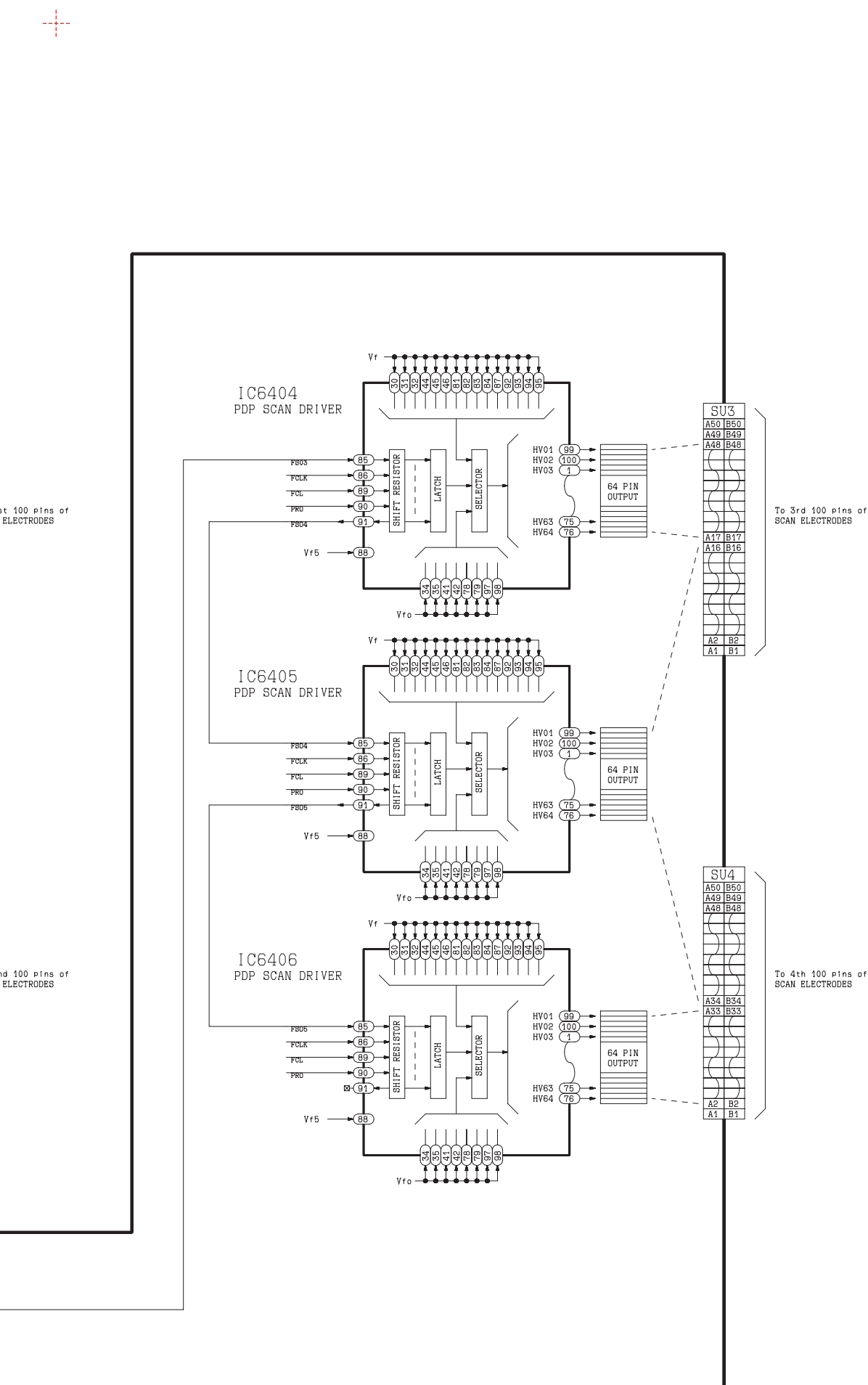


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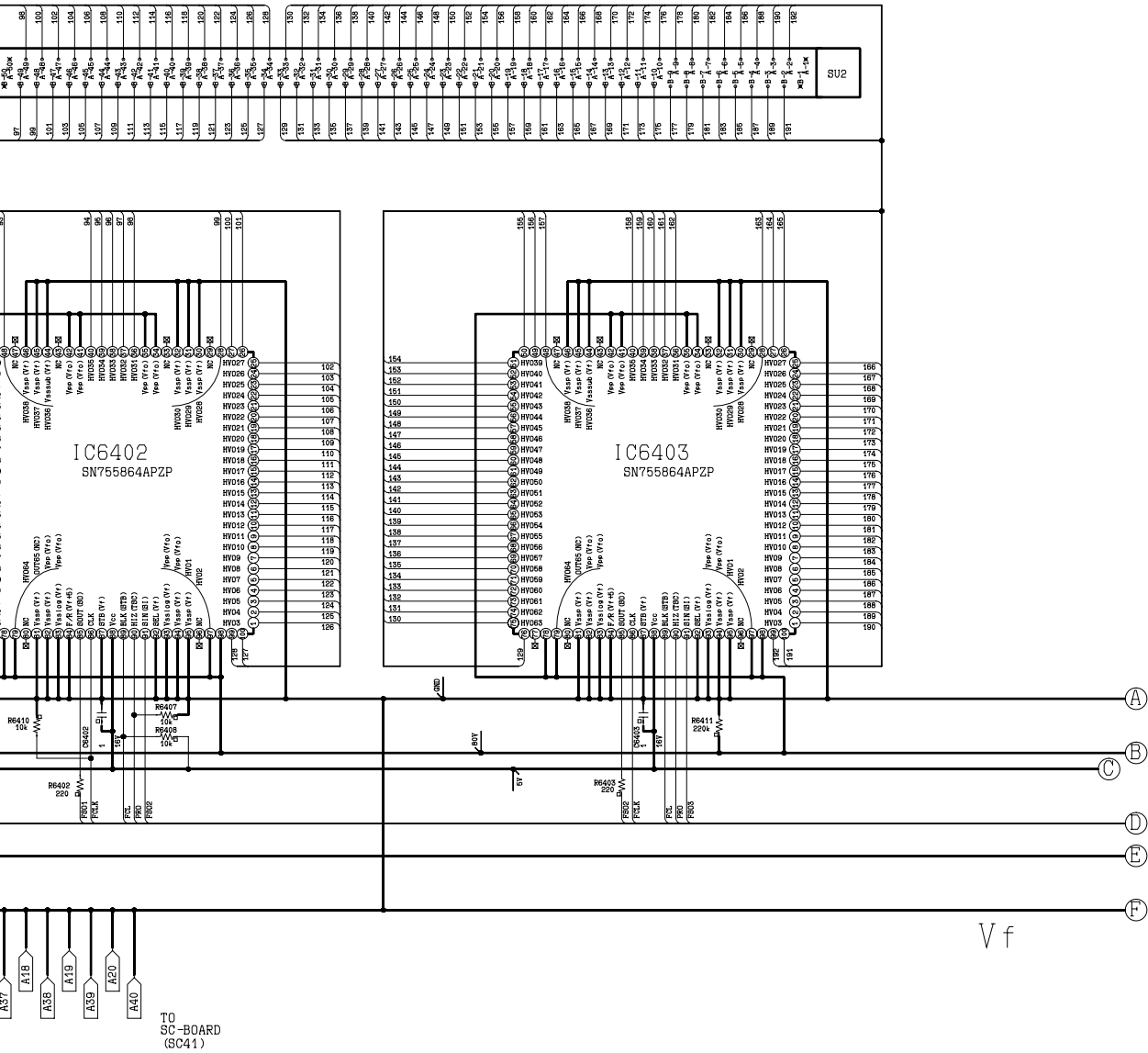
14.41. SU-Board Block Diagram





TH-50PHD5/TH-50PHW5 SU-Board Block Diagram

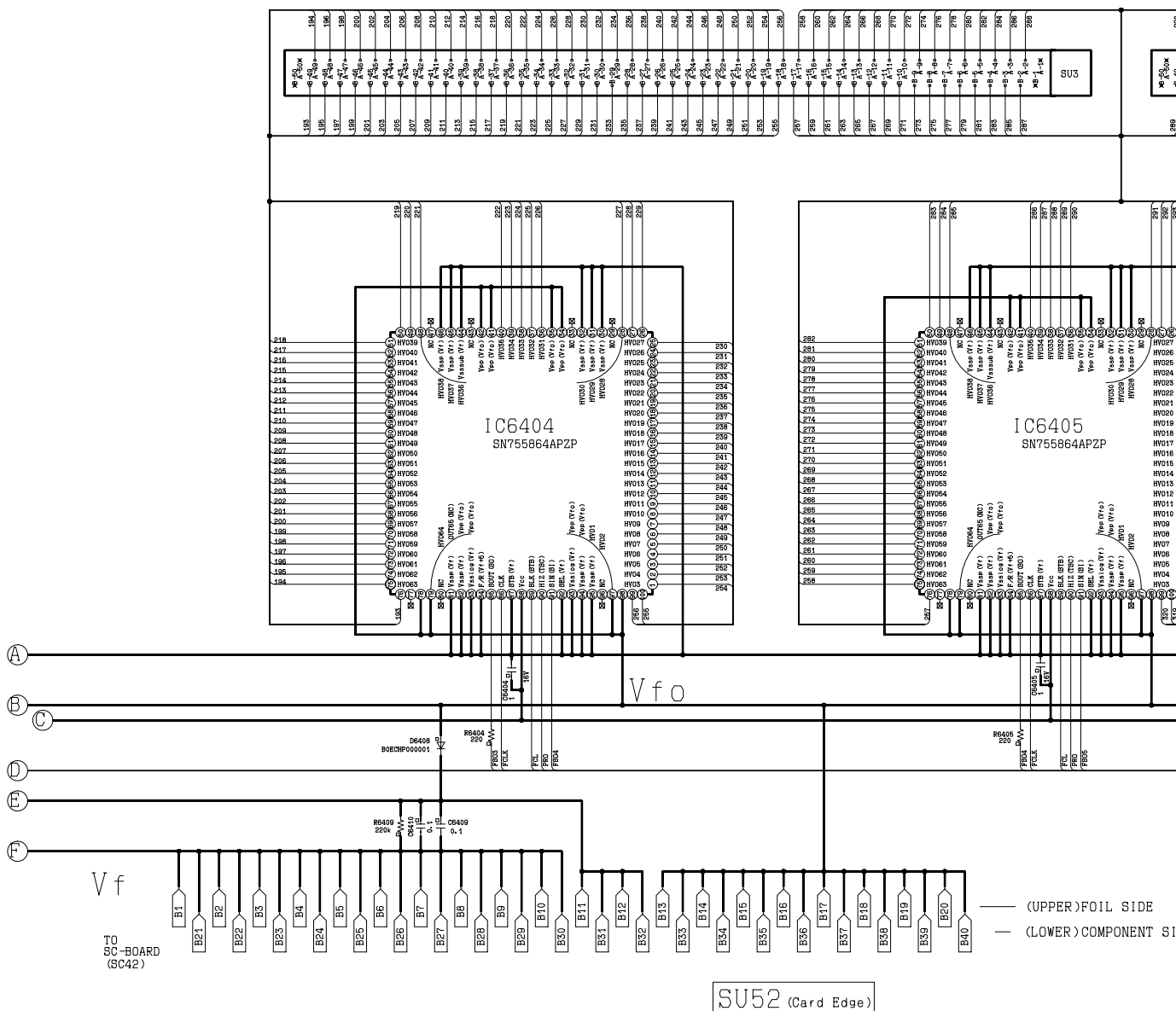




TH-50PHD5/TH-50PHW5 SU-Board (1 of 2) Schematic Diagram

14.43. SU-Board (2 of 2) Schematic Diagram

⚠ SU-BOARD TNPA2517 (2/2)



TH-50PHD5/TH-50PHW5 SU-Board (2 of 2) Schematic Diagram

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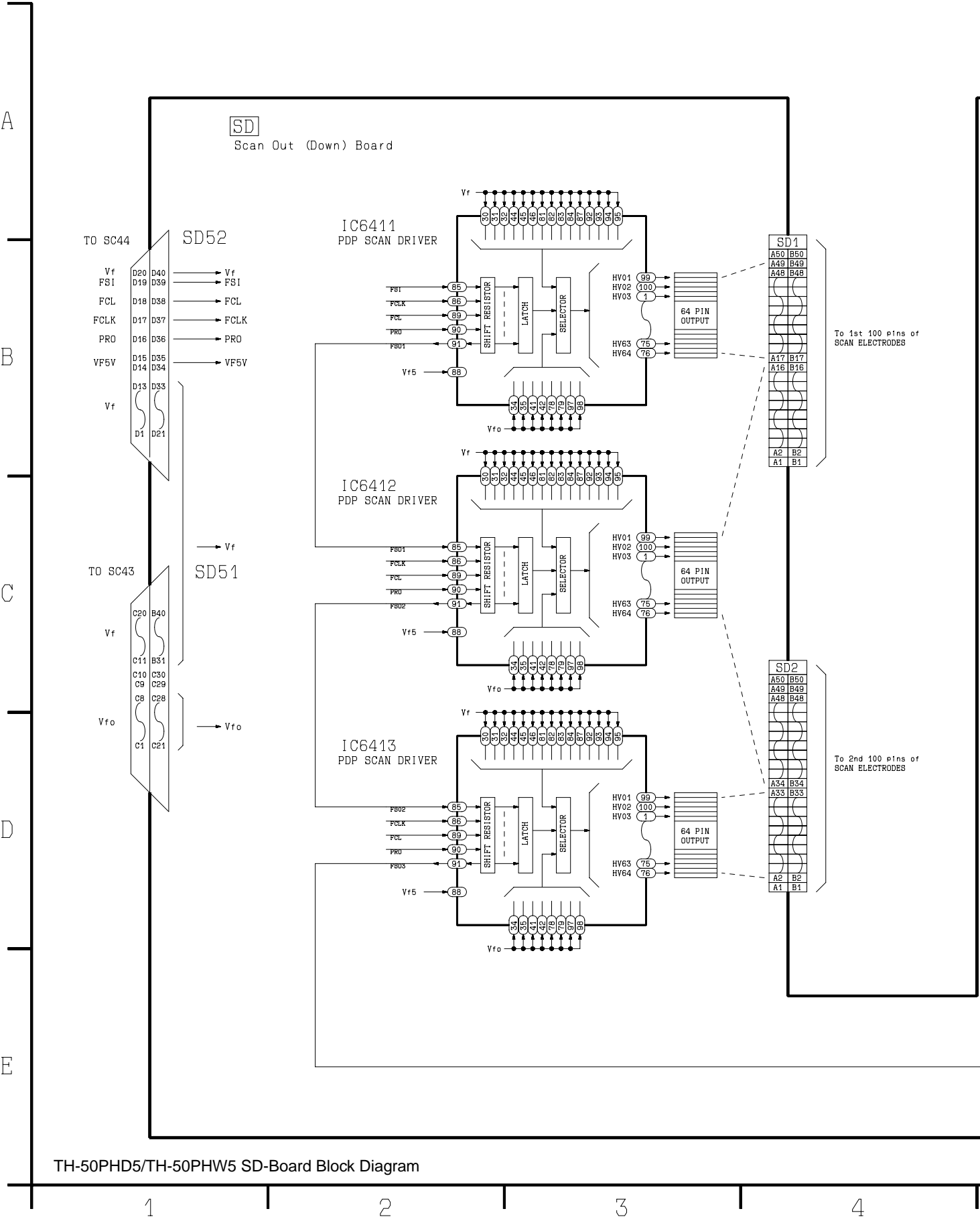
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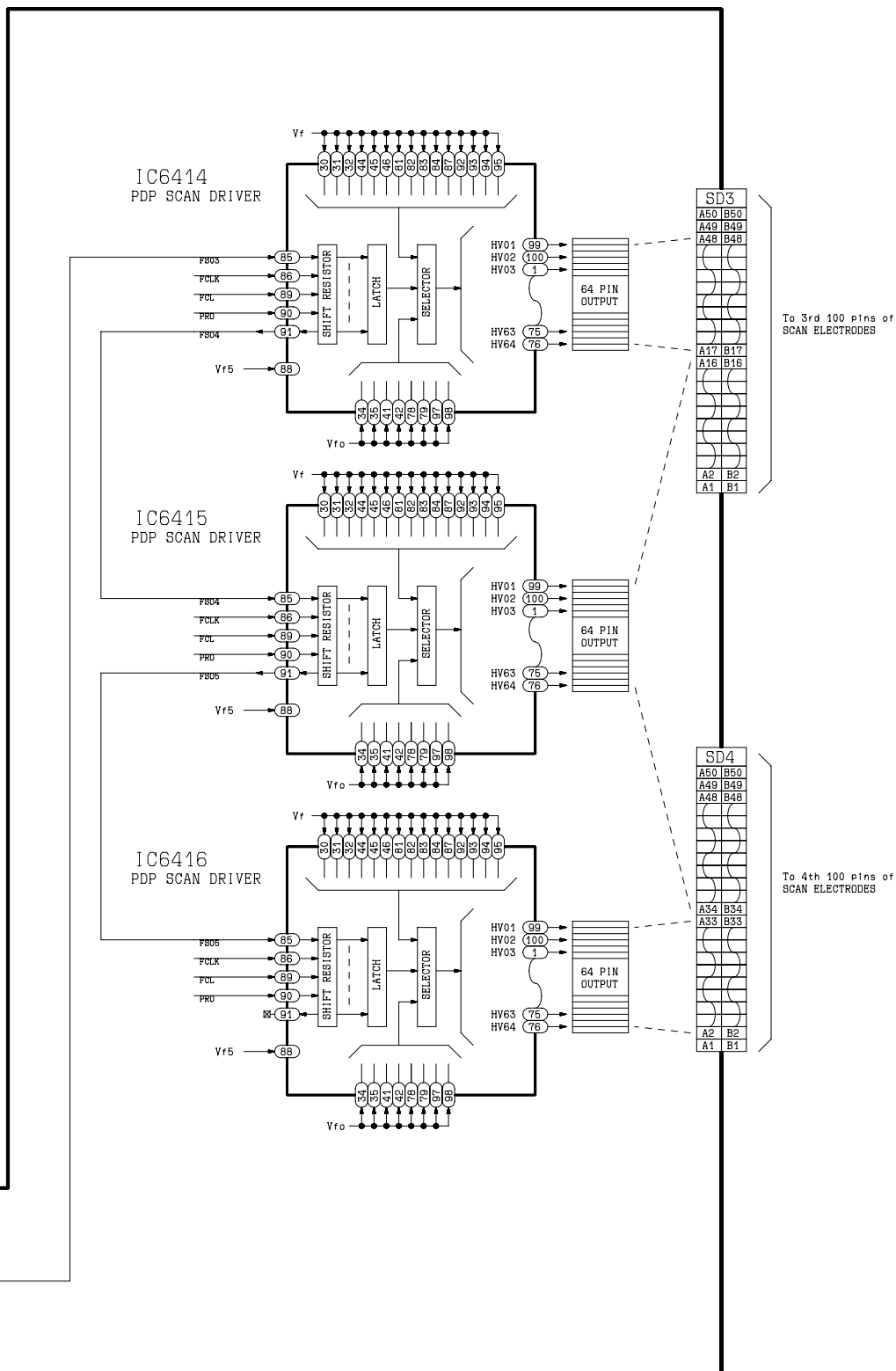
13

14.44. SD-Board Block Diagram



ins of
DES

ins of
DES



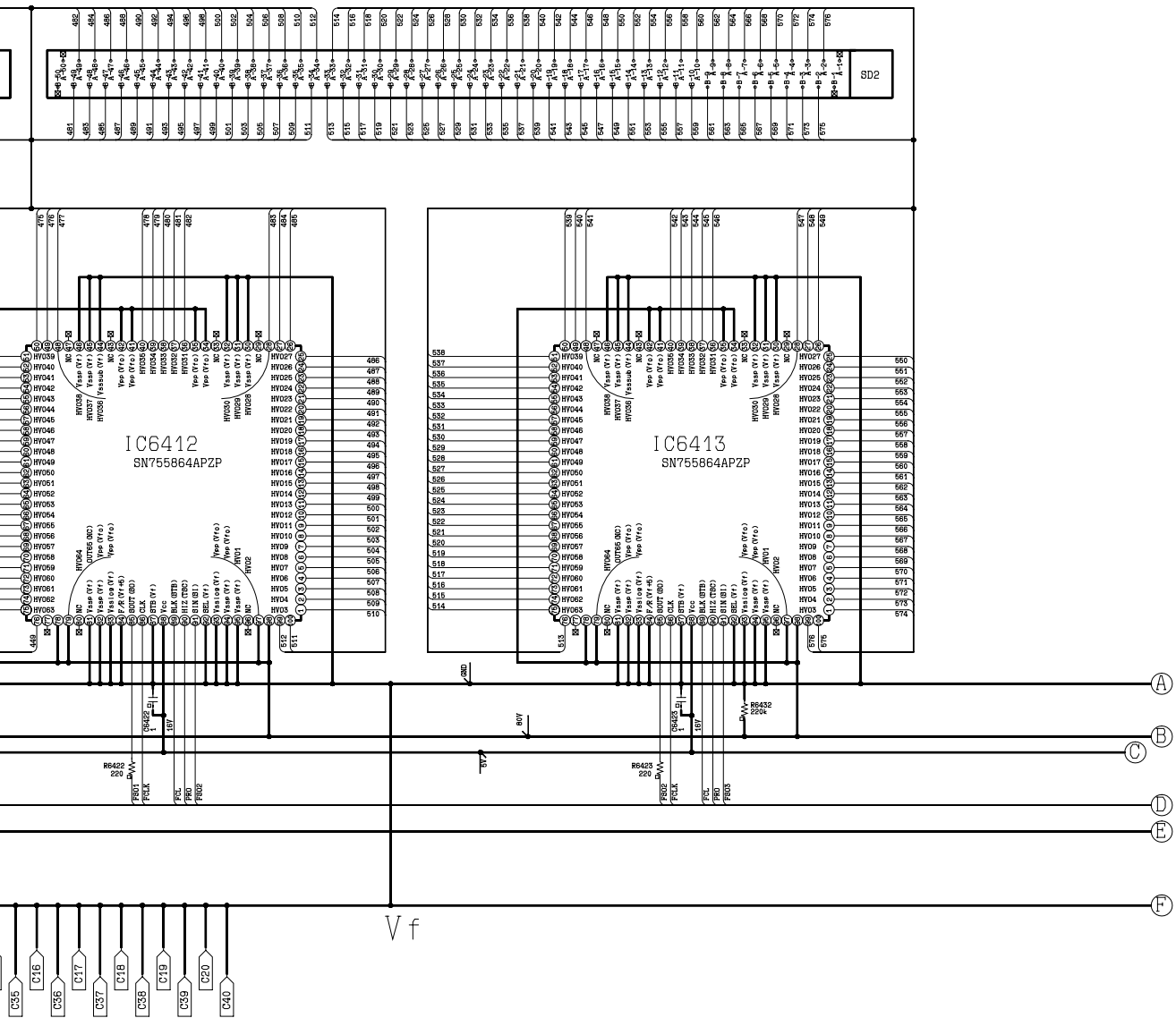
TH-50PHD5/TH-50PHW5 SD-Board Block Diagram

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TH-50PHD5/TH-50PHW5 SD-Board (1 of 2) Schematic Diagram

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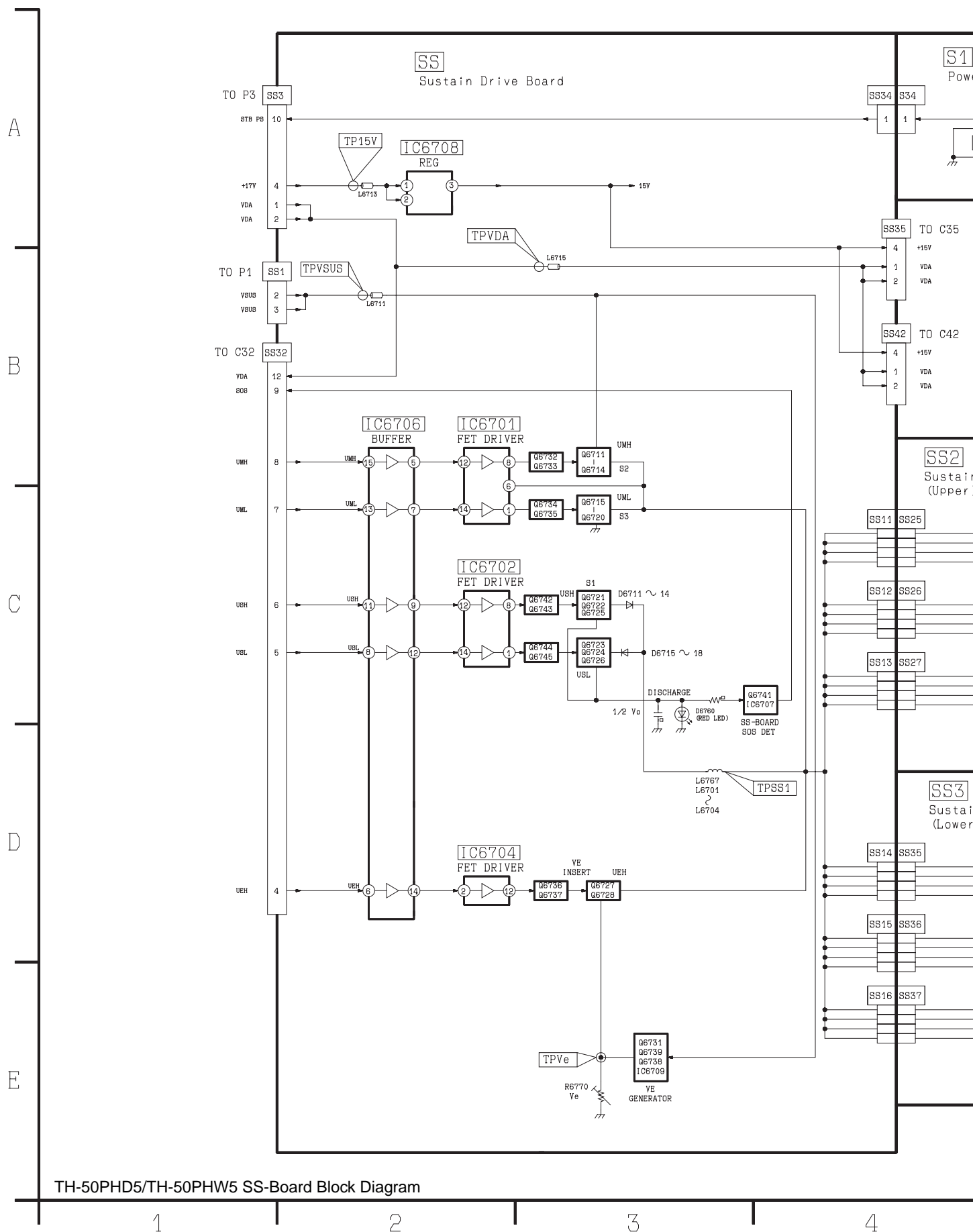


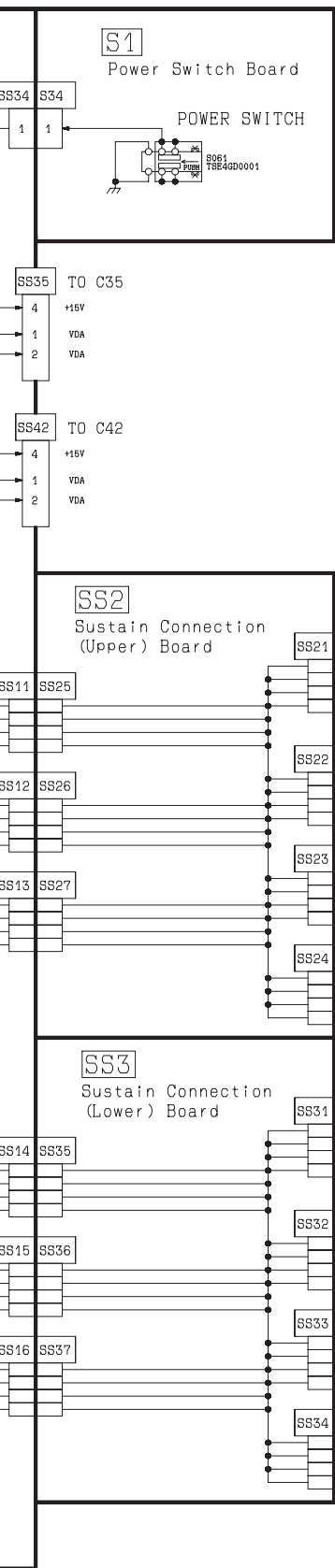
TO
SC-BOARD
(SC44)

— (UPPER) FOIL SIDE
— (LOWER) COMPONENT SIDE

SD52 (Card Edge)

14.47. SS-Board Block Diagram





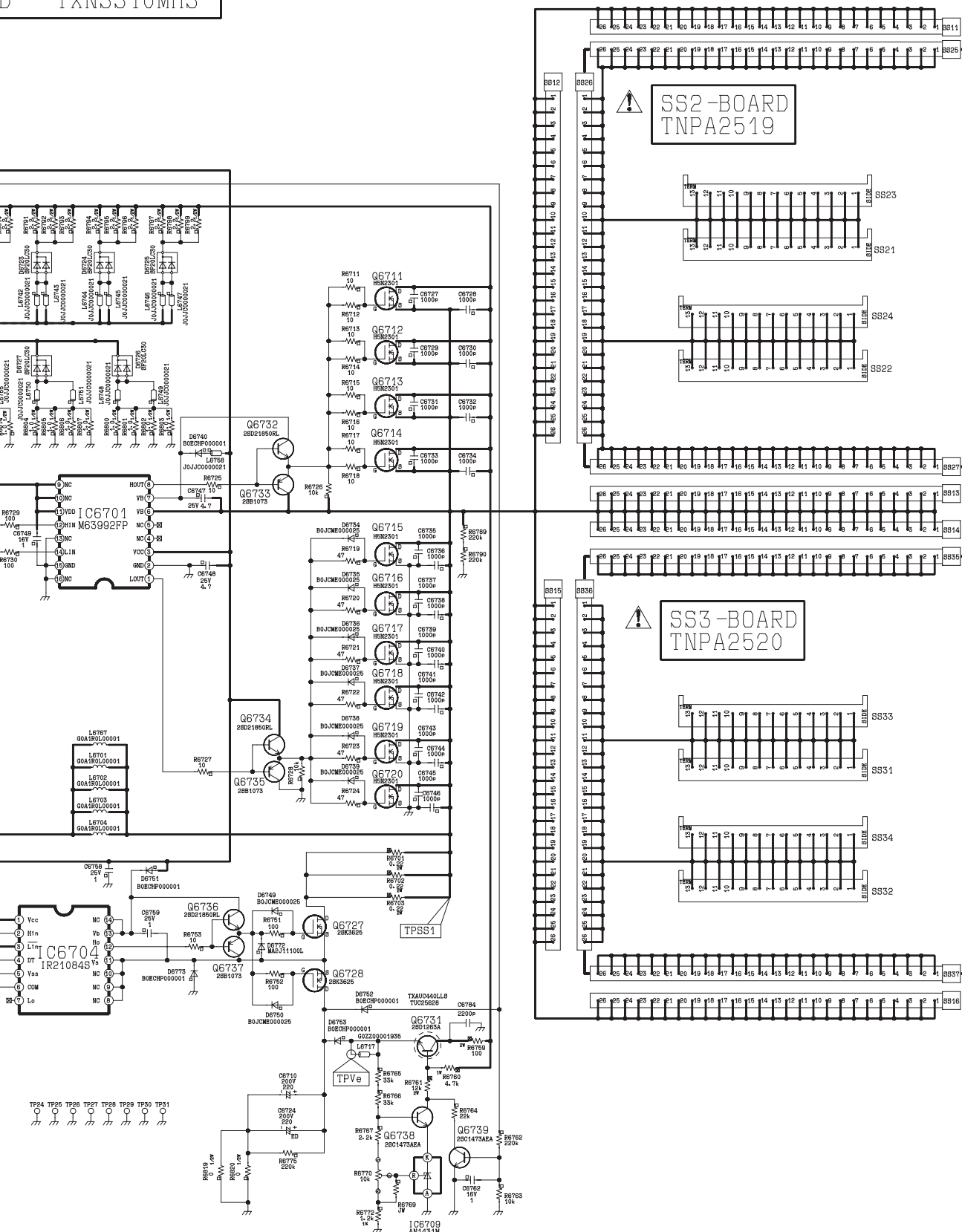
TH-50PHD5/TH-50PHW5 SS-Board Block Diagram

1 5 6 7



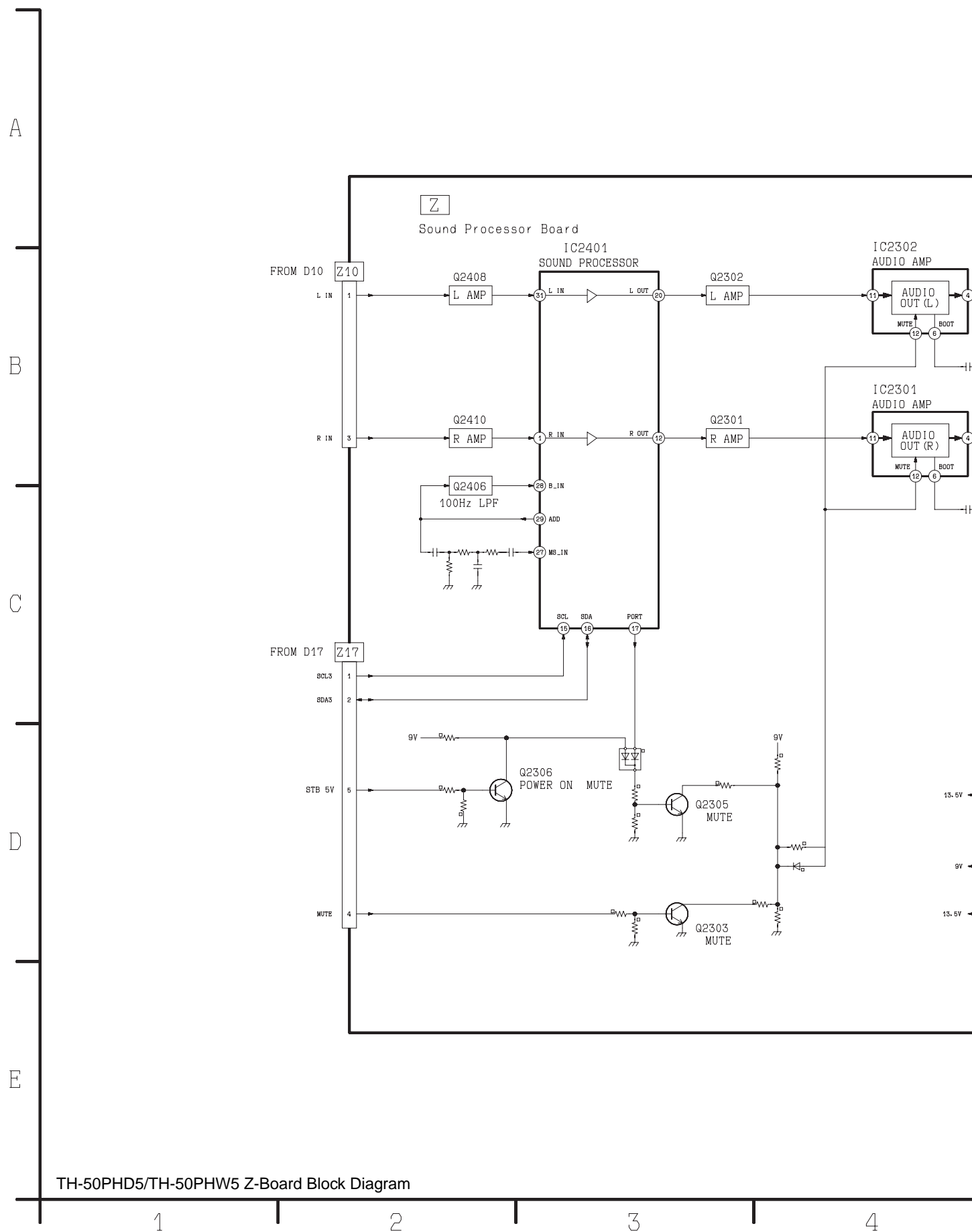
114

TXNSS10MHS

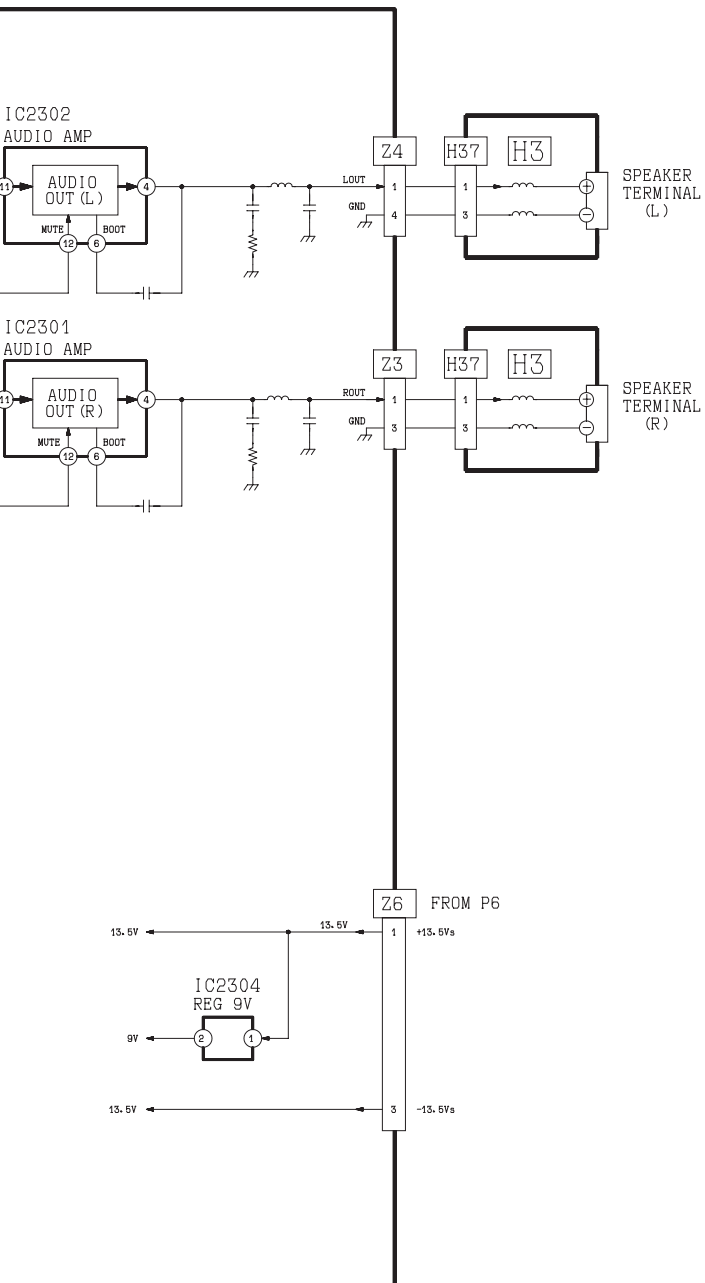


TH-50PHD5/TH-50PHW5 SS,SS2,SS3 and S1-Board Schematic Diagram

14.49. Z-Board Block Diagram



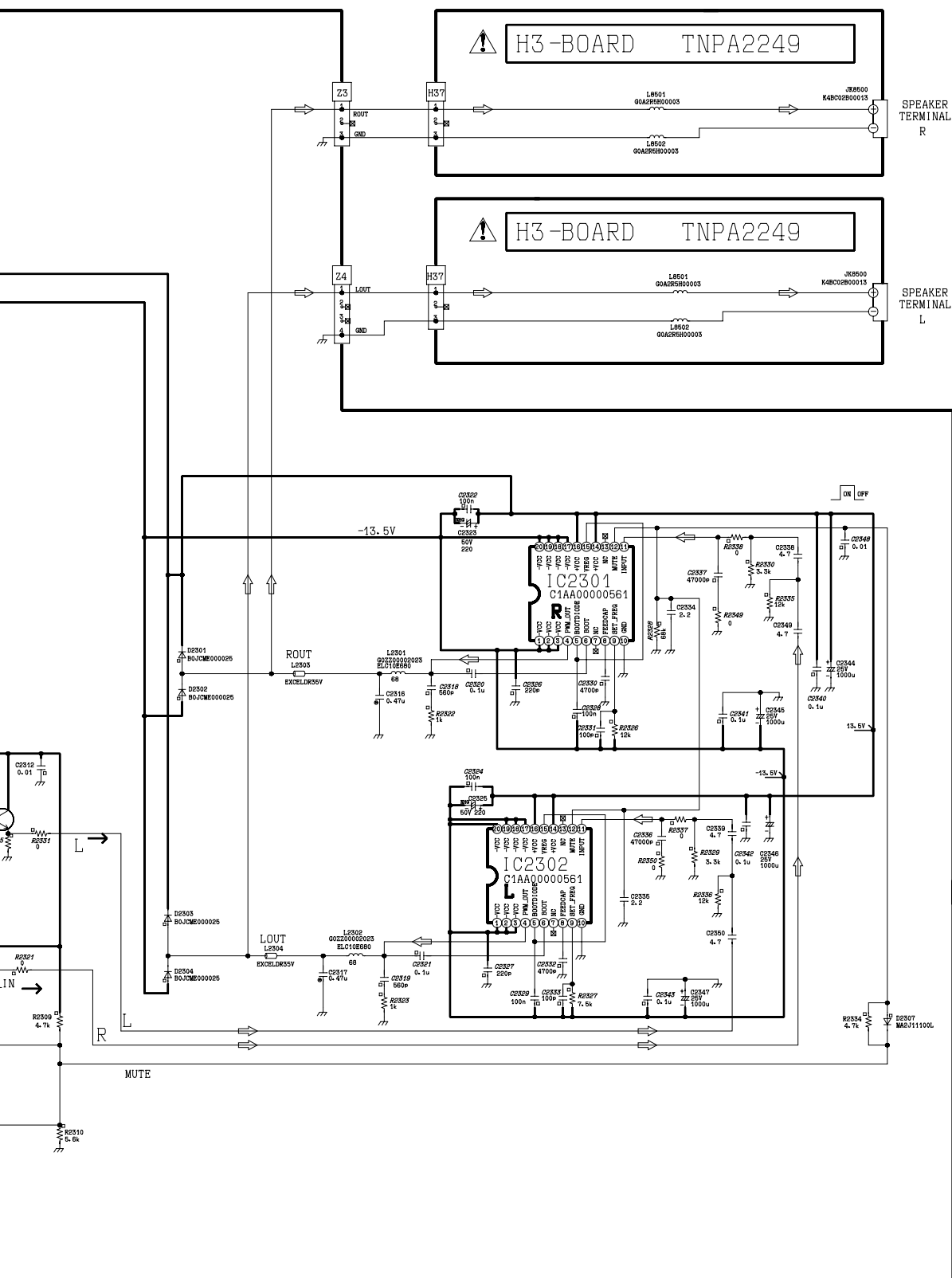
TH-50PHD5/TH-50PHW5 Z-Board Block Diagram



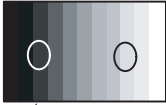
TH-50PHD5/TH-50PHW5 Z-Board Block Diagram

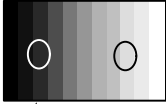
4 5 6 7







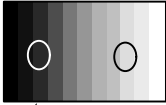
TH-50PHD5/TH-50PHW5 H3 and Z-Board Schematic Diagram

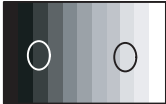
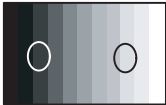
	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	NTSC Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ₂ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ₂ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ₂ . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="780 881 1140 1000"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -01	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatue to "Cool". 2)Re-set Sub bright to "30"												

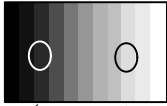
	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	<div>PAL Gray Scale Pattern</div> <div> High light 75% Low light 15%</div>	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	<div>1) Find the nearest area to brightness of 10 cd/m² as Low light by color sensor.</div> <div>2) Adjust Sub bright to set Low light level to 10 cd/m² exactly.</div> <div>3) Set G cut off to " 80 ".</div> <div>4) Adjust B and R cut off to set color temperature as shown Fig.-02.</div> <div>5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m².</div> <div>6)Find 75% of white area by color sensor.</div> <div>7) Set G Drive to " D8 ".</div> <div>8) Adjust B and R Drive to set color temperature as shown Fig.-02.</div> <div>9) Repeat procedure 4) to 7) to set both Low light and high light.</div> <div>10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".</div> <div>11) Re-adjust Low light level again.</div> <div><table><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table><div>Fig. -02</div></div>	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	<div>1) Change white balance to "Normal".</div> <div>2) Repeat procedure 3) to 11) of Cool mode.</div>												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	<div>1) Change white balance to "Warm".</div> <div>2) Repeat procedure 3) to 11) of Cool mode.</div>												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	<div>1) Change color templature to "Cool".</div> <div>2)Re-set Sub bright to "30"</div>												

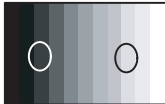
		Equipment	Setting	Alignment menu	Procedure																												
5			Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. <table border="1"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	
	SECAM signal				2) Input SECAM signal. 3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.																												

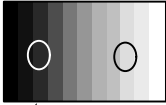
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern  Black 2 % Black 0 %		Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright Chroma Control: Gun off RGB Sub Adjust: B Sub Bright Chroma Control: Gun off RGB Sub Adjust: R Sub Bright	** Adjust at the dark room. 1) Set R,G and B cut off to " 80 ". 2) Set Gun off to " 5 ". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to " 3 ". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to " 6 ". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	RGB(PC) Gray Scale Pattern  Black 2 % Black 0 %		Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to RGB signal. 2) Repeat procedure 1) to 7) of Component input signal.

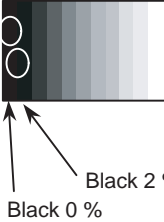
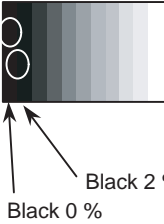
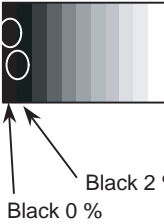
	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	PC Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ₂ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ₂ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ₂ . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="780 881 1140 1000"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -03	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatue to "Cool". 2)Re-set Sub bright to "30"												

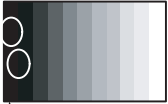
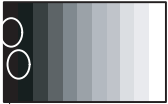
	INPUT	Equipment	Setting	Alignment menu	Procedure																												
5	<div>RGB Gray Scale Pattern</div> 		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		<div>1) Write down each color temapature of R,G,B drive and Cut off data as follows.</div> <table border="1"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> <div>2) Input RGB signal.</div> <div>3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.</div>	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	
6	<div>DVI Gray Scale Pattern</div> 		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		<div>1) Write down each color temapature of R,G,B drive and Cut off data as follows.</div> <table border="1"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> <div>2) Input DVI signal.</div> <div>3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.</div>	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	HD (720i or 1080i) Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m2 as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m2 exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m2. 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="780 907 1138 1029"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -04	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"												

	INPUT	Equipment	Setting	Alignment menu	Procedure																												
5	<p>RGB Gray Scale Pattern</p>  <p>High light 75% Low light 15%</p>		<p>Picture: Normal</p> <p>Aspect: 16:9</p> <p>White balance: Cool Normal Warm</p>		<p>1) Write down each color temaparature of R,G,B drive and Cut off data as follows.</p> <table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> <p>2)Change input signal to 525i and 525p.</p> <p>3) Copy HD drive and cut off data of each white balance mode to each signals position.</p>	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	625i Gray Scale Pattern  High light 75% Low light 15%	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ² as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ² exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-05. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ² . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-05. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="780 881 1138 999"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -05	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatue to "Cool". 2)Re-set Sub bright to "30"												

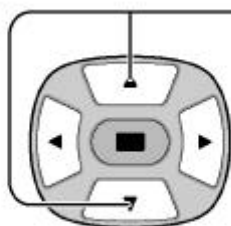
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.
2	PAL Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode. 8) Change to SECAM signal. 9) Copy PAL All cut off data to SECAM mode.
	SECAM Gray Scale Pattern				
3	PC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode. 8) Change to RGB input signal. 9) Copy PC All cut off data to RGB mode. 10) Change to DVI input signal. 11) Copy PC All cut off data to DVI mode.
	RGB Gray Scale Pattern				
	DVI Gray Scale Pattern				


	INPUT	Equipment	Setting	Alignment menu	Procedure
4	525i Gray Scale Pattern  525p Gray Scale Pattern HD (720i or 1080i) Gray Scale Pattern		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode. 8) Change to 525p signal. 9) Copy 525i All cut off data to 525p mode. 8) Change to HD signal. 9) Copy 525i All cut off data to HD mode.
5	625i Gray Scale Pattern  Black 0 % Black 2 %		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.

How to access the Option menu

- 1**
- 
- Press to display the Setup menu.

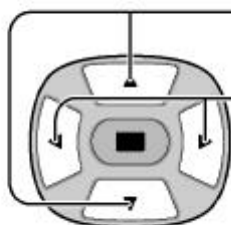
- 2**
- Press to select OSD Language.



- 3**
- 
- Press down for more than 3 seconds to display the Option menu.

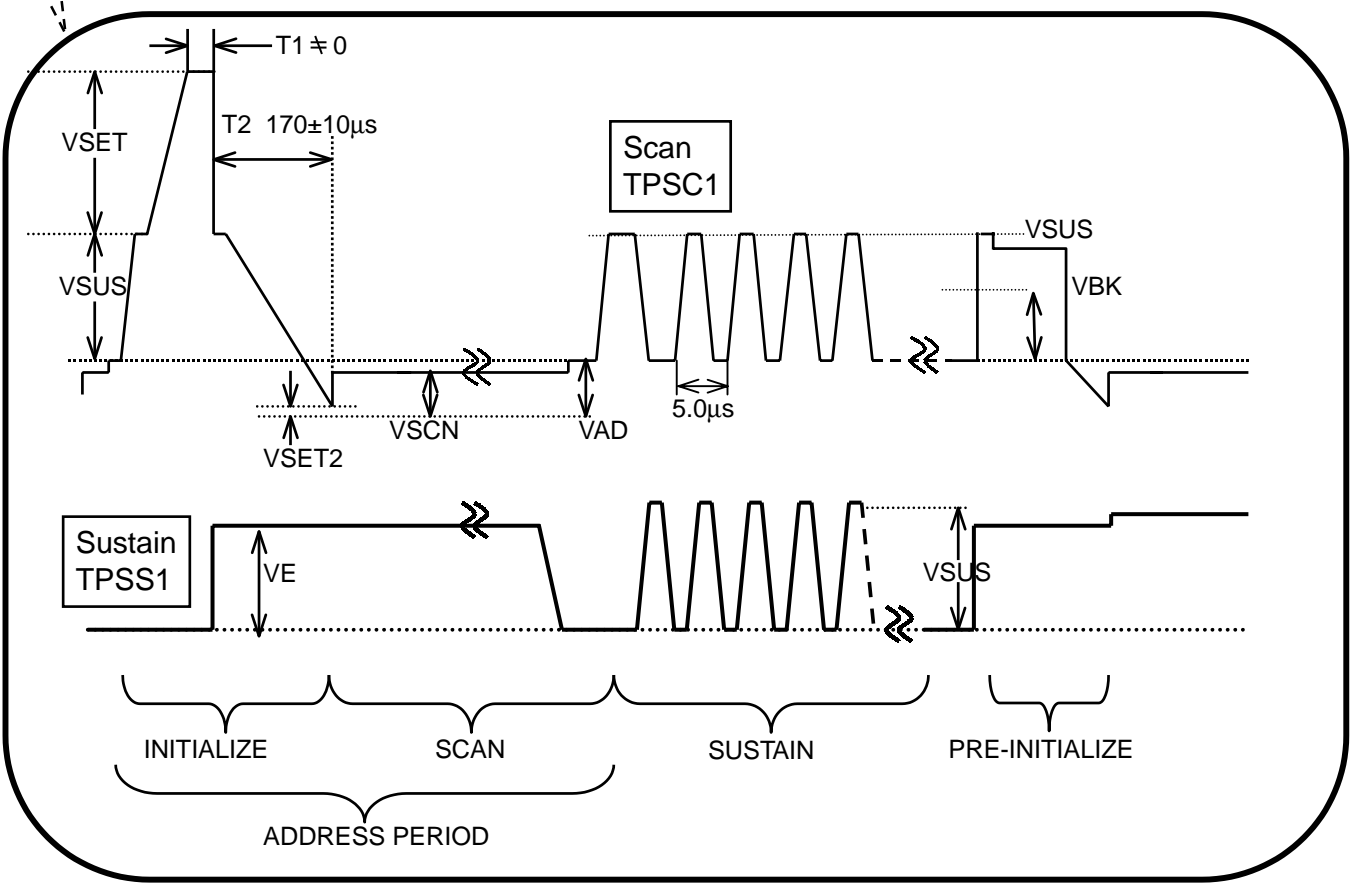
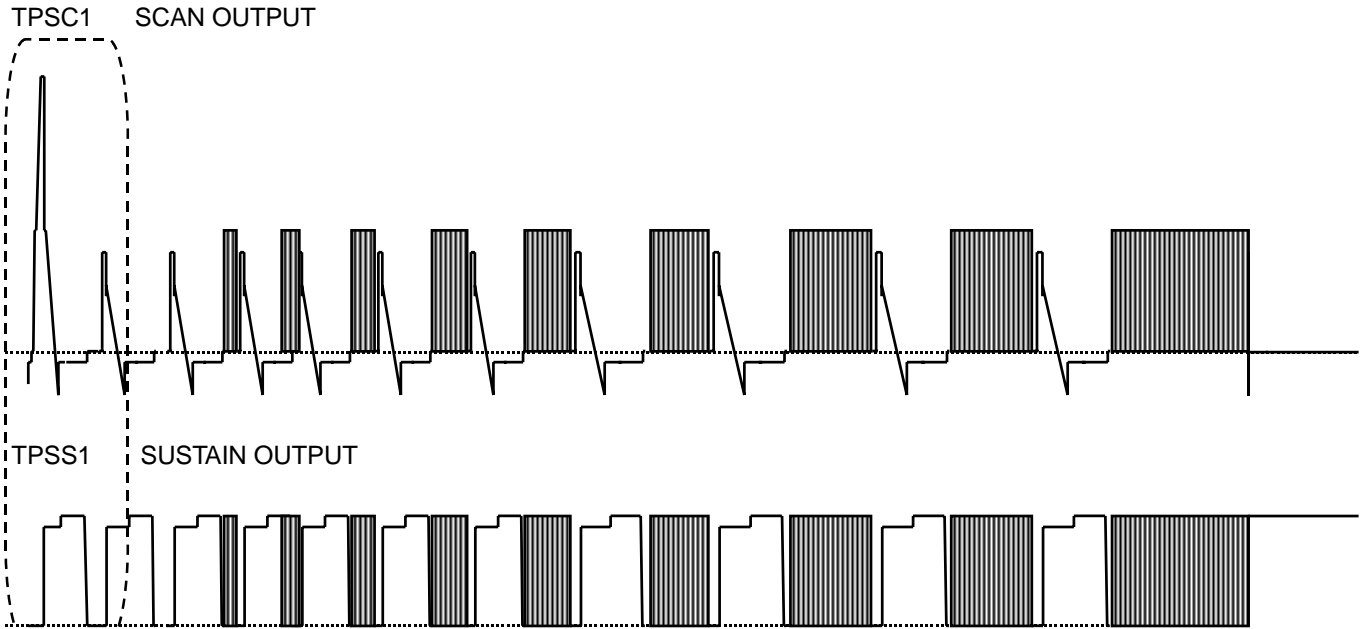
Setting the Option menus

- 1**
- Press to select the desired item.
- Press to select the desired function.



The option menu will disappear 60 seconds after operation.

- 2**
- 
- Press to exit Option menu.



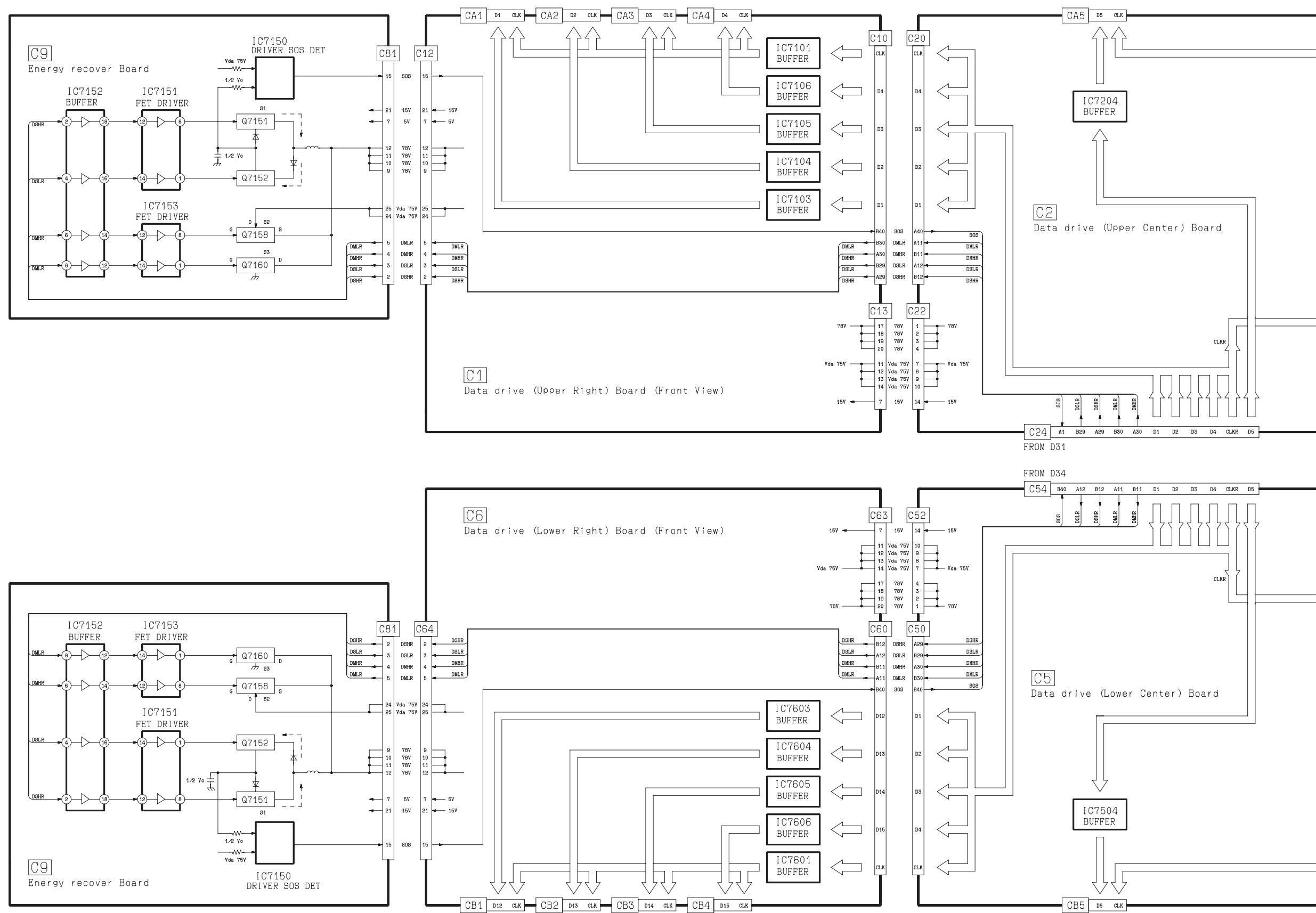
A

B

C

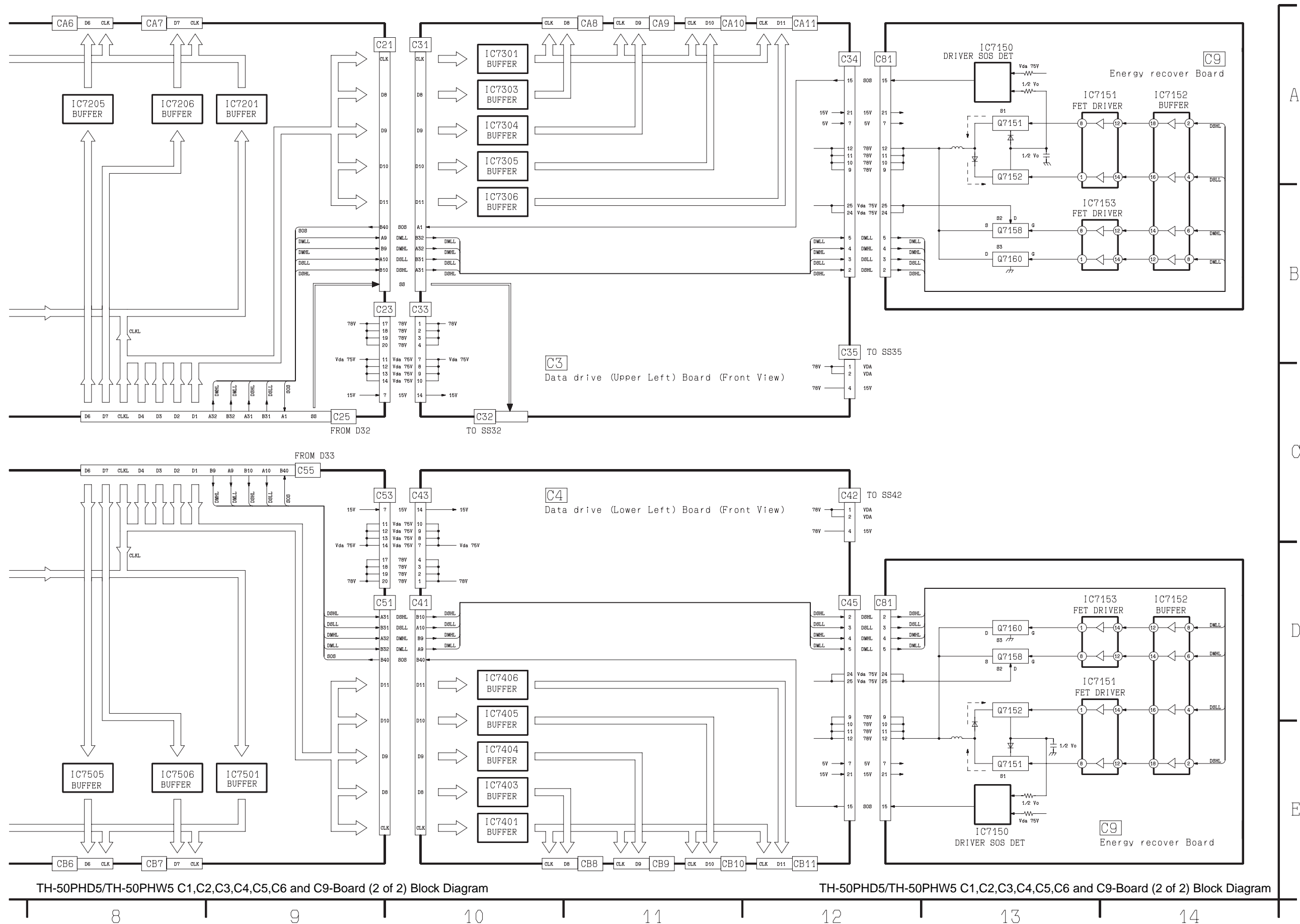
D

E



TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (1 of 2) Block Diagram

TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (1 of 2) Block Diagram



TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (2 of 2) Block Diagram

TH-50PHD5/TH-50PHW5 C1,C2,C3,C4,C5,C6 and C9-Board (2 of 2) Block Diagram



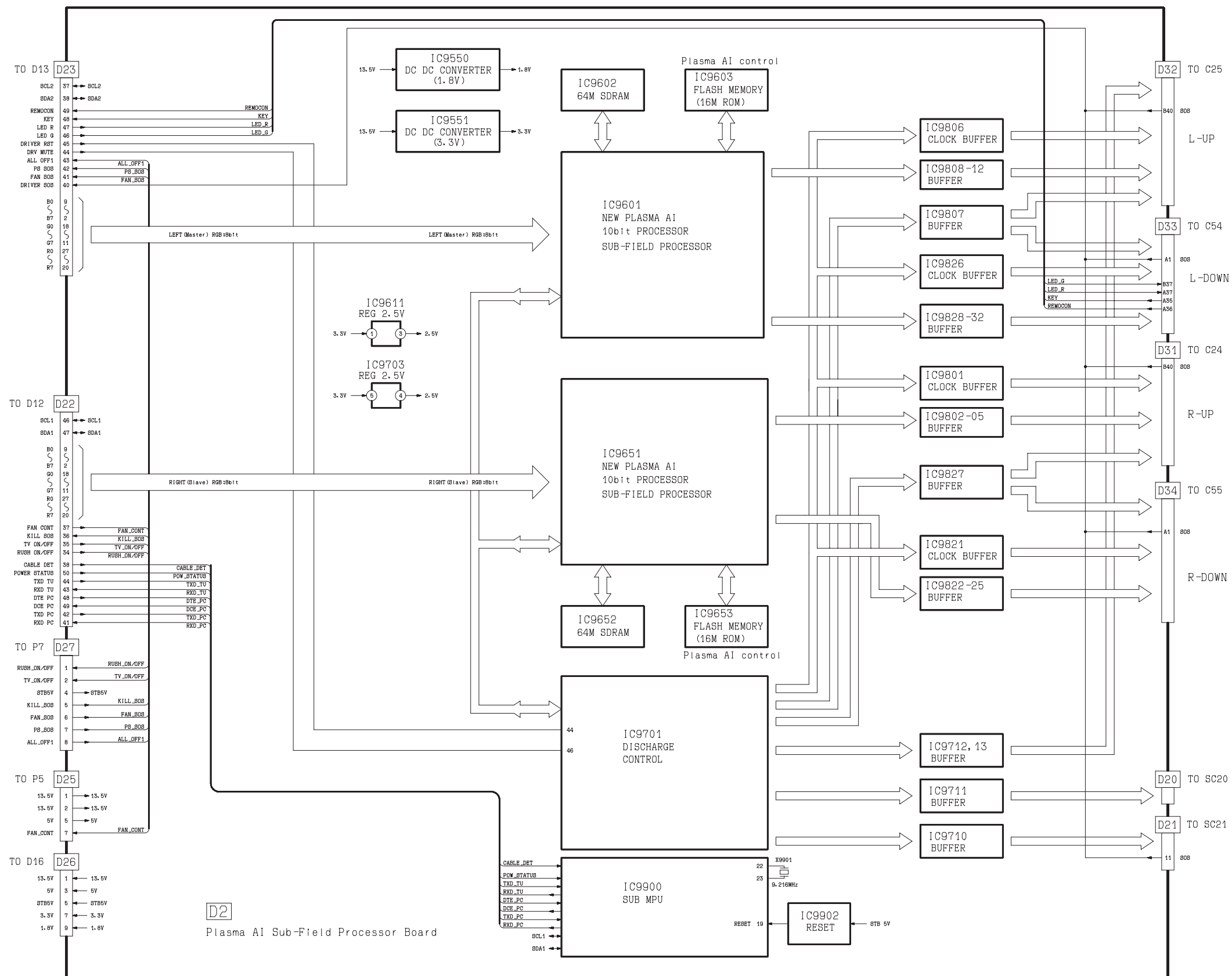
A

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TH-50PHD5/TH-50PHW5 D2-Board Block Diagram

TH-50PHD5/TH-50PHW5 D2-Board Block Diagram

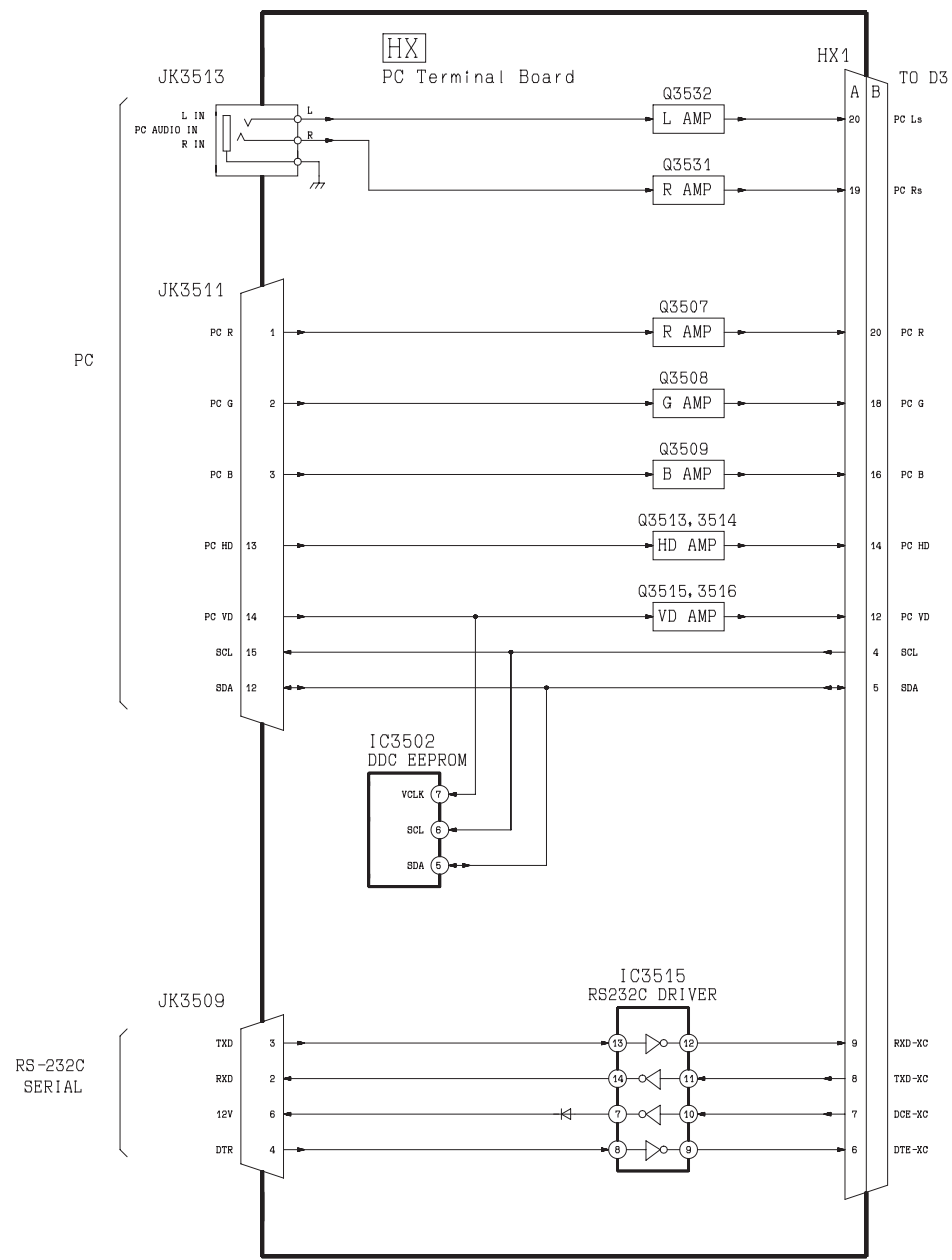
A

B

C

D

E



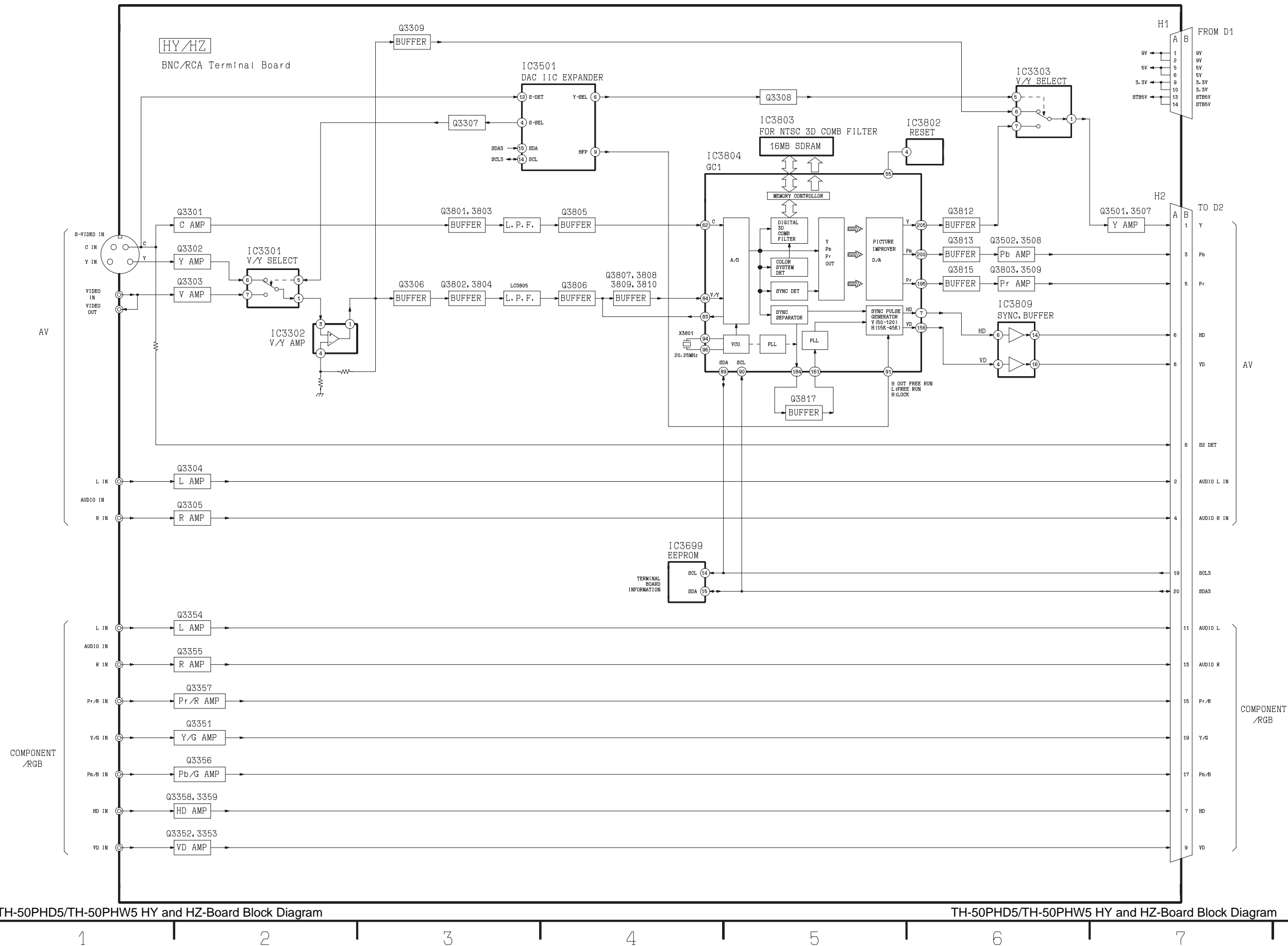
A

B

C

D

E



TH-50PHD5/TH-50PHW5 HY and HZ-Board Block Diagram

A

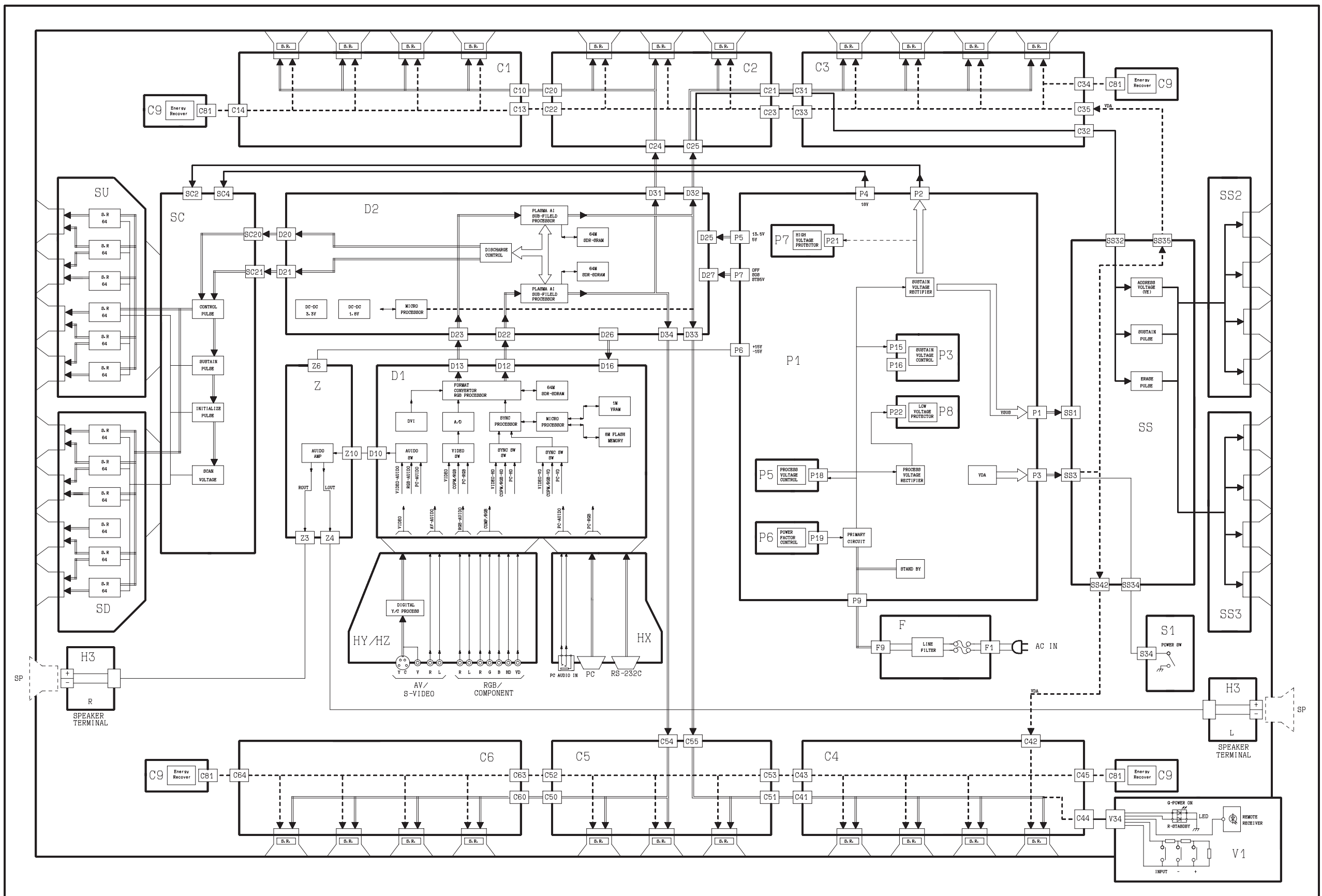
B

C

D

E

F



TH-50PHD5/TH-50PHW5 Main Block Diagram

TH-50PHD5/TH-50PHW5 Main Block Diagram

1

2

3

4

5

6

7

8

9

A

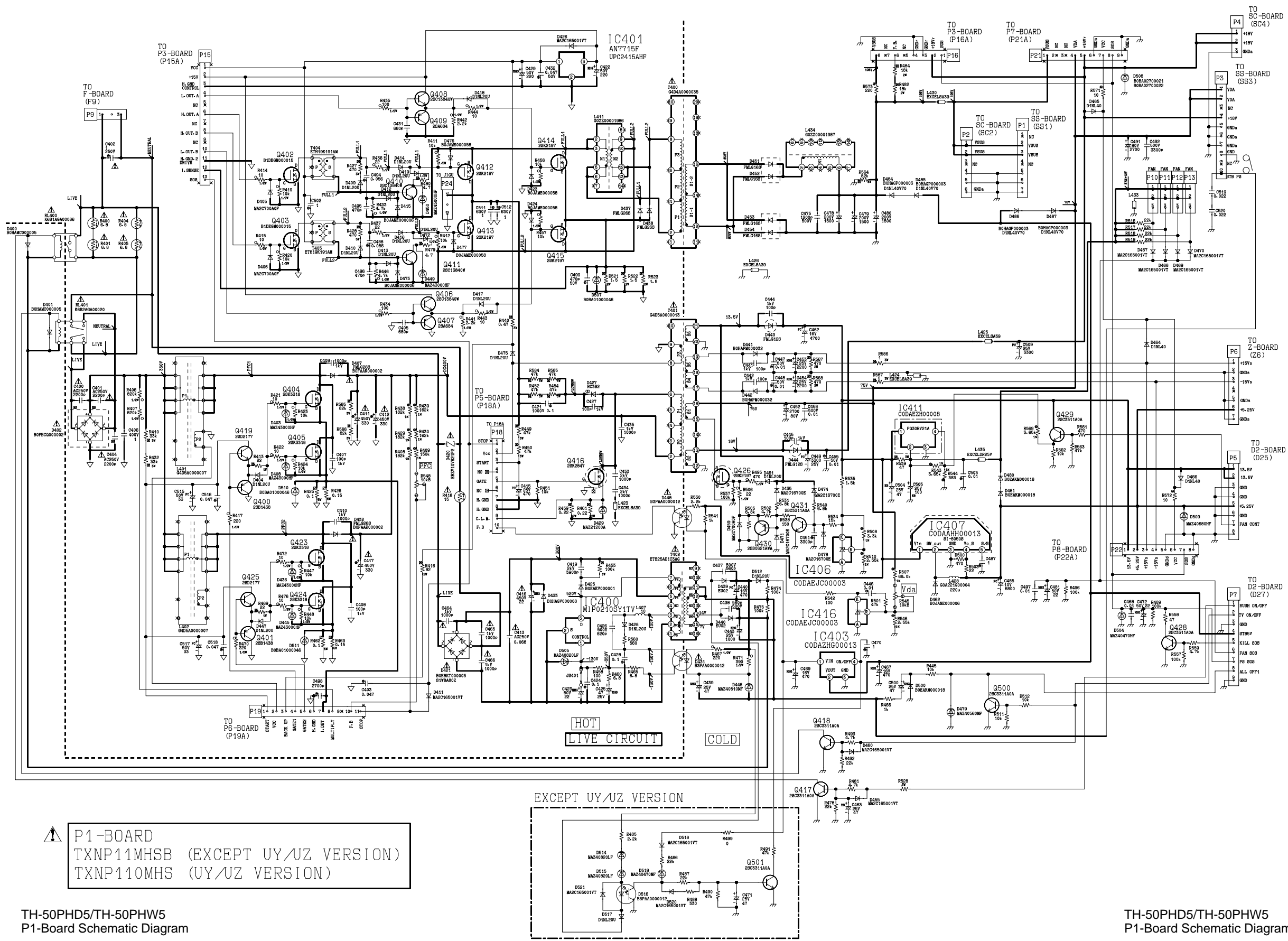
B

C

D

E

F



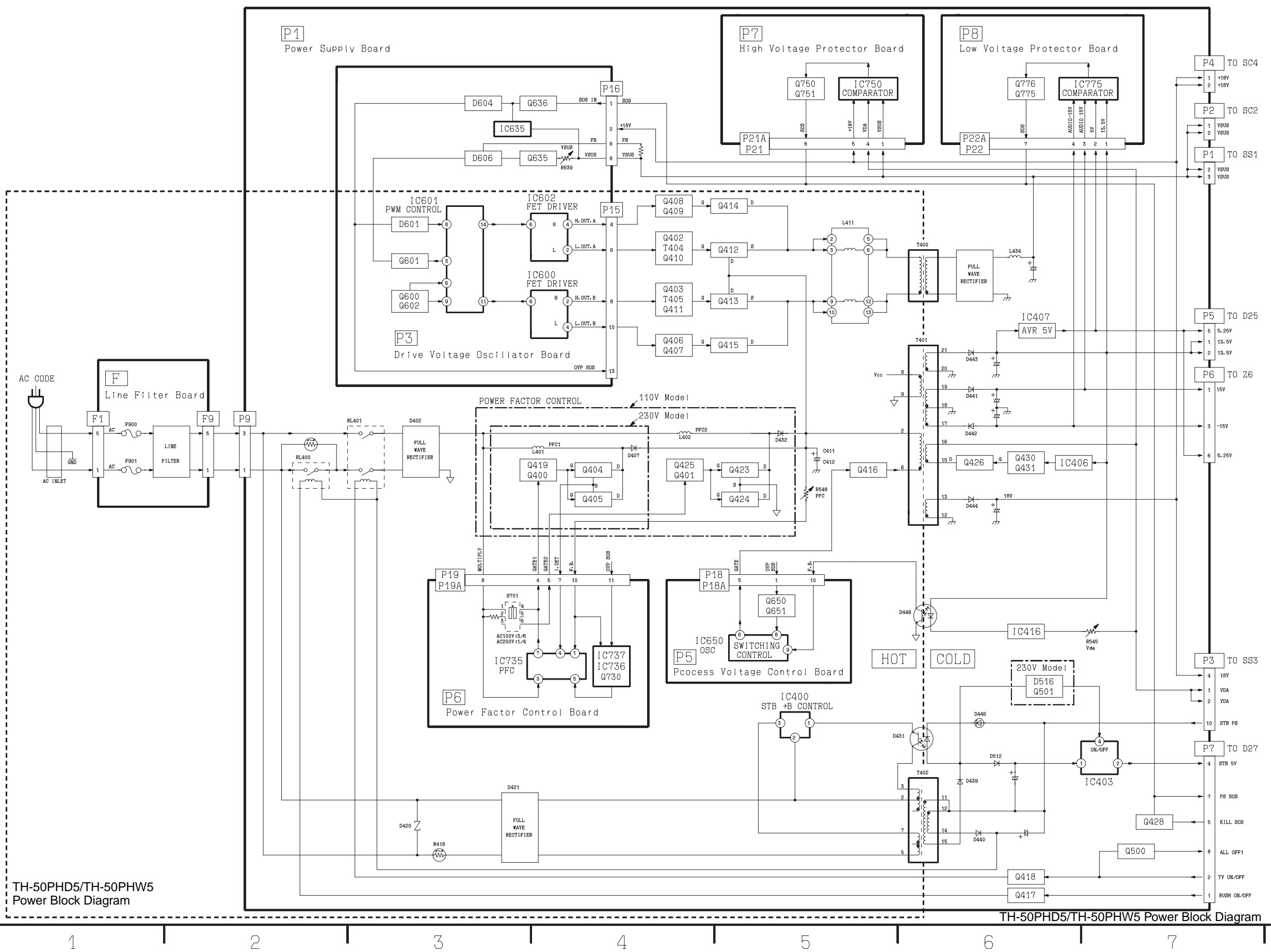
A

B

C

D

E



TH-50PHD5/TH-50PHW5
Power Block Diagram

TH-50PHD5/TH-50PHW5 Power Block Diagram

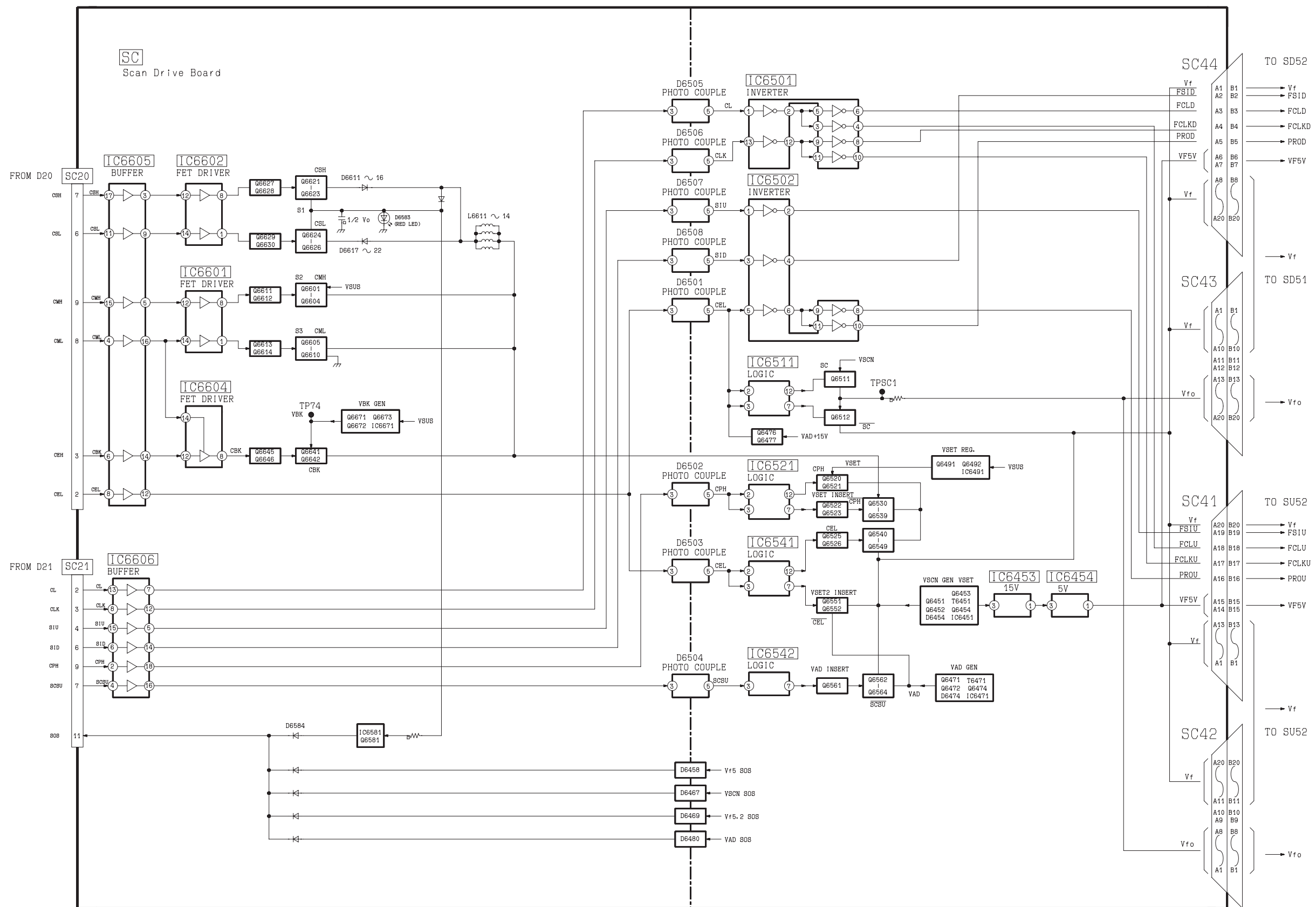
A

B

C

D

E



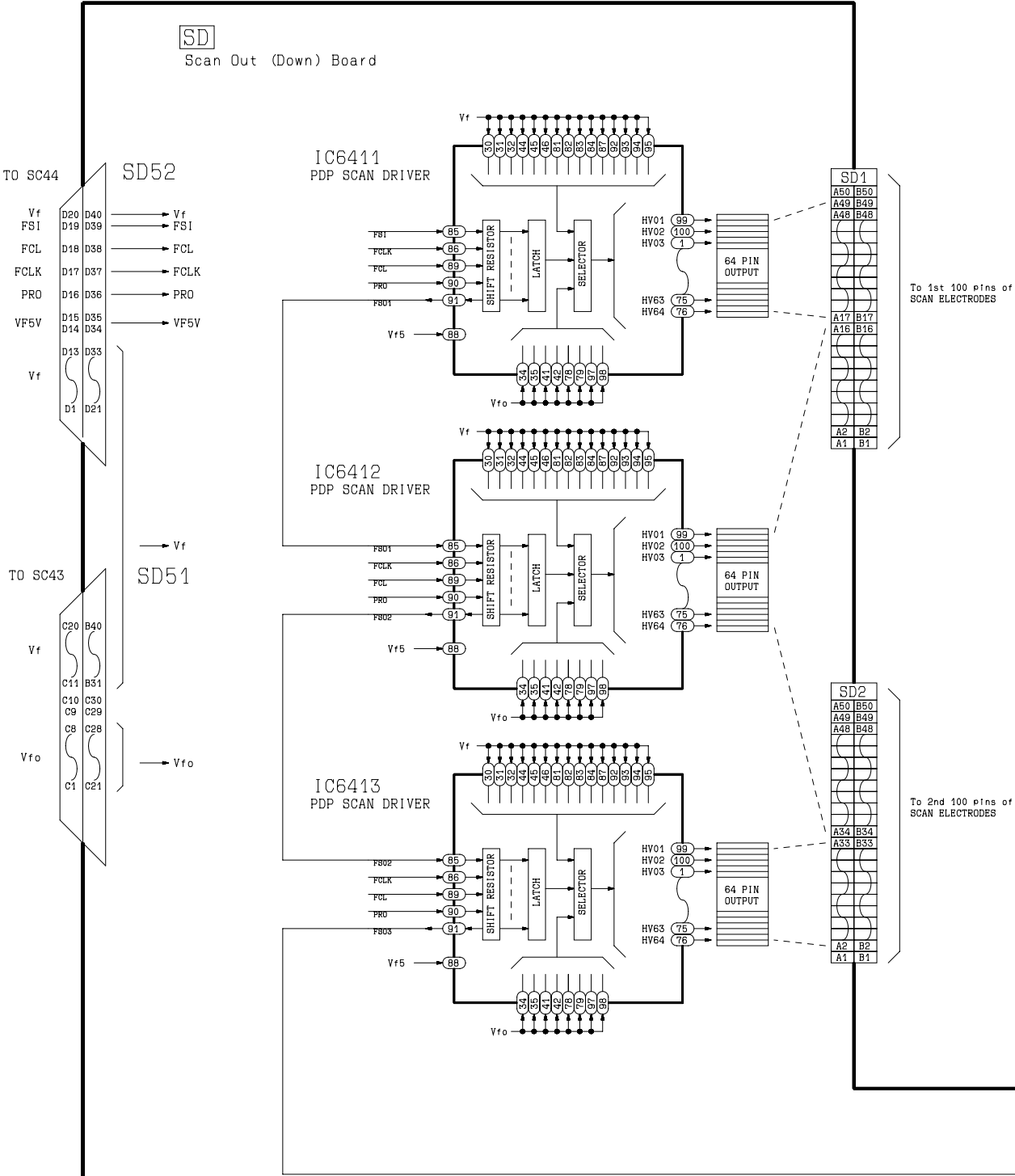
A

B

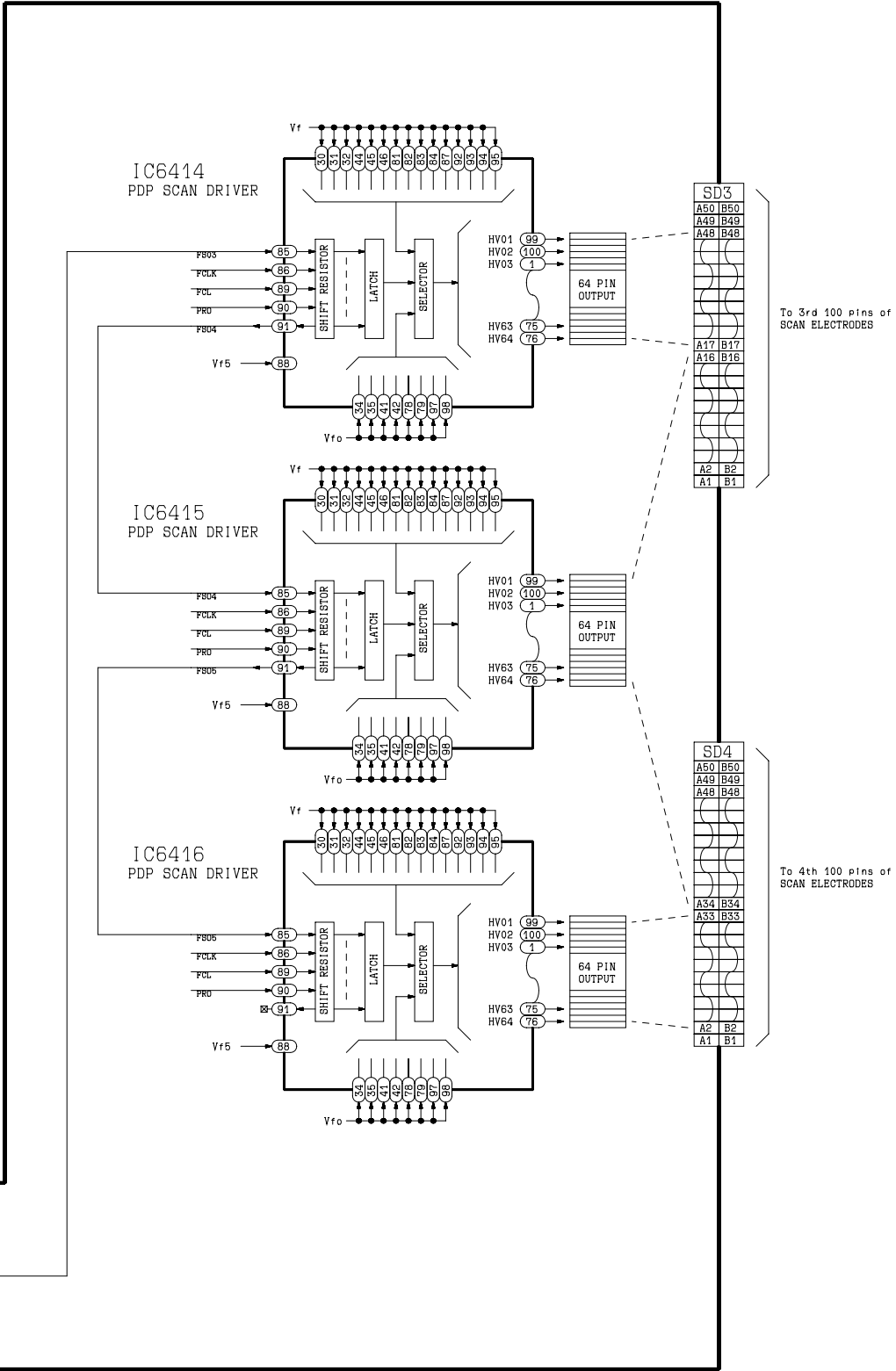
C

D

E



TH-50PHD5/TH-50PHW5 SD-Board Block Diagram



TH-50PHD5/TH-50PHW5 SD-Board Block Diagram

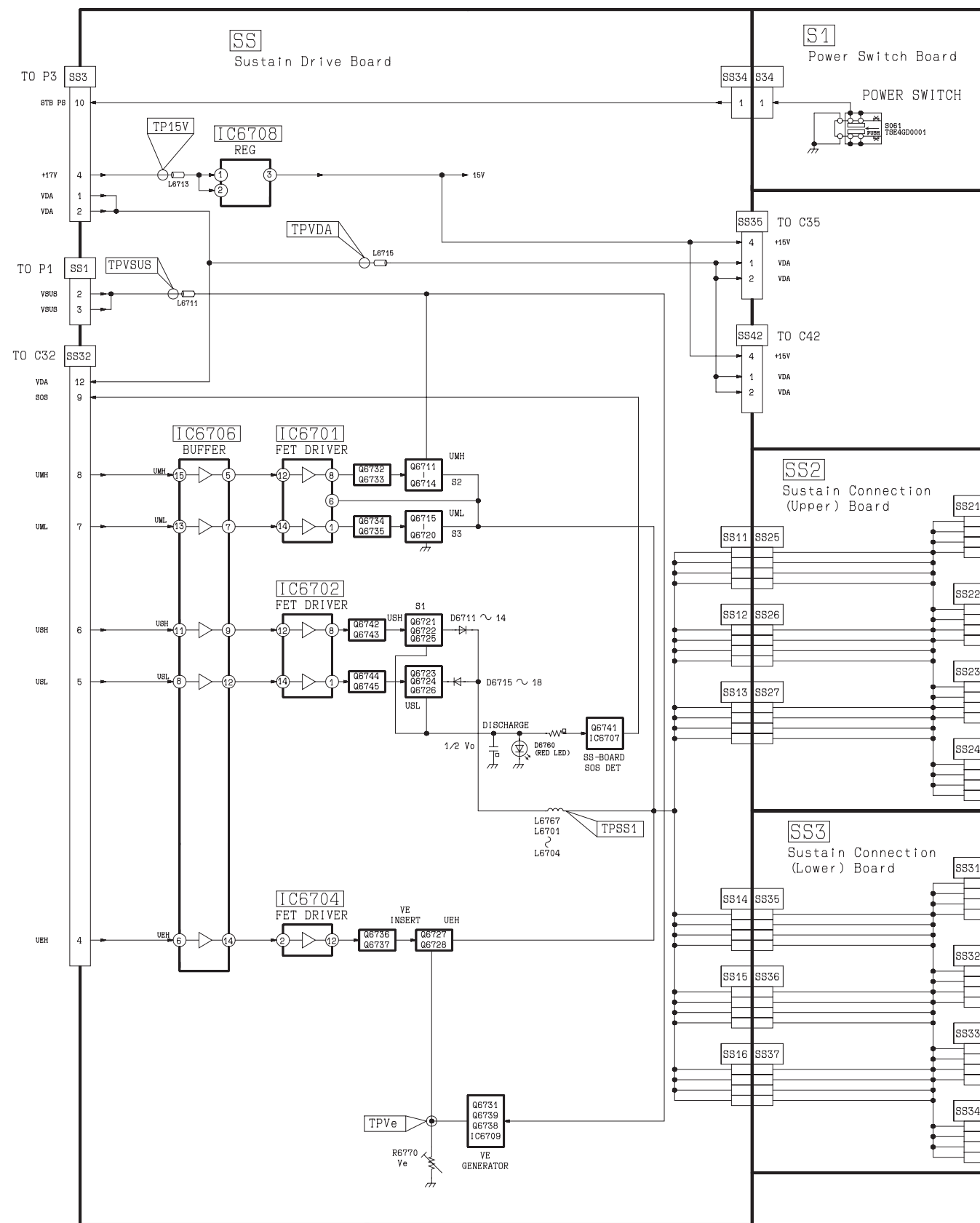
A

B

C

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E



TH-50PHD5/TH-50PHW5 SS-Board Block Diagram

TH-50PHD5/TH-50PHW5 SS-Board Block Diagram

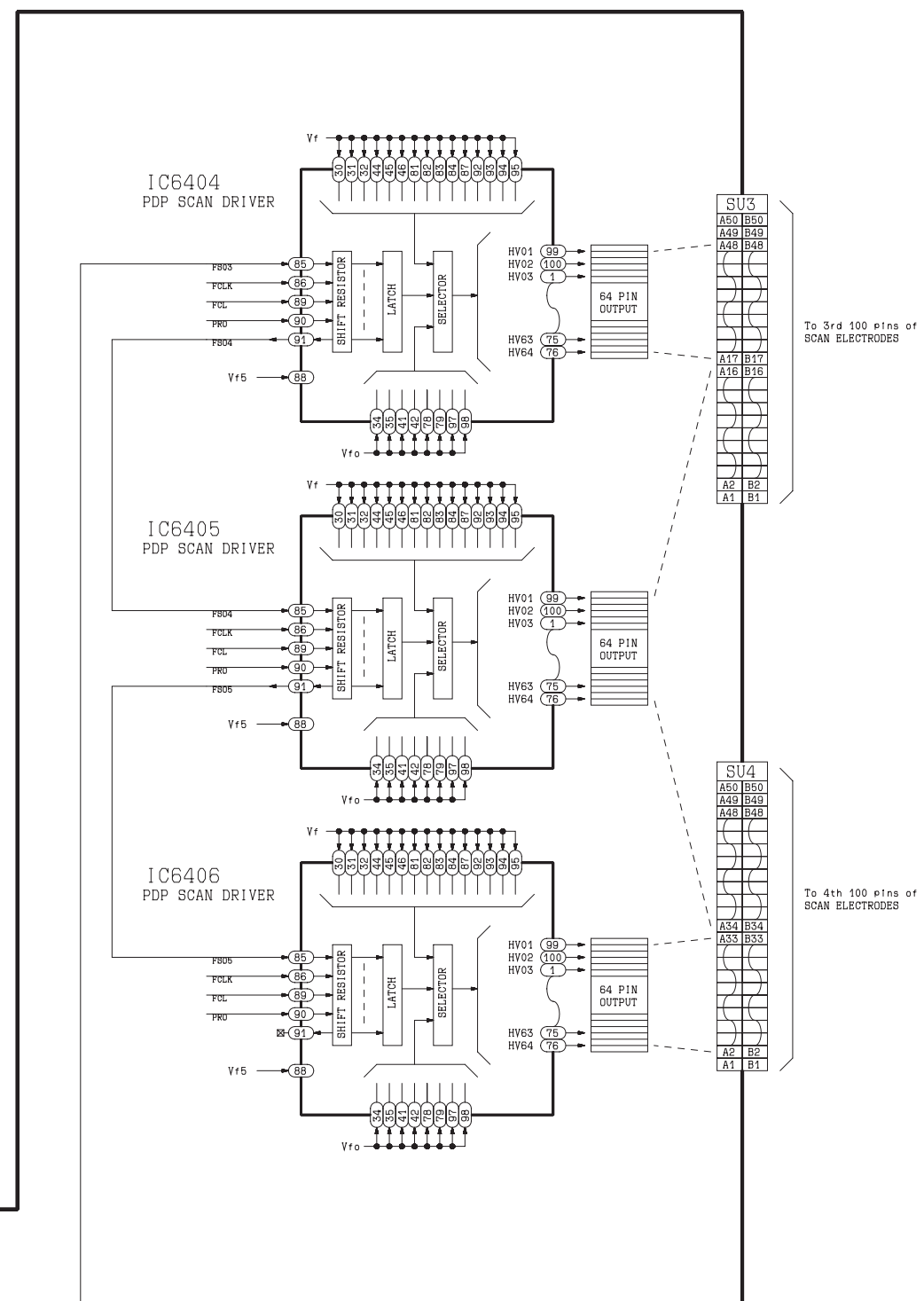
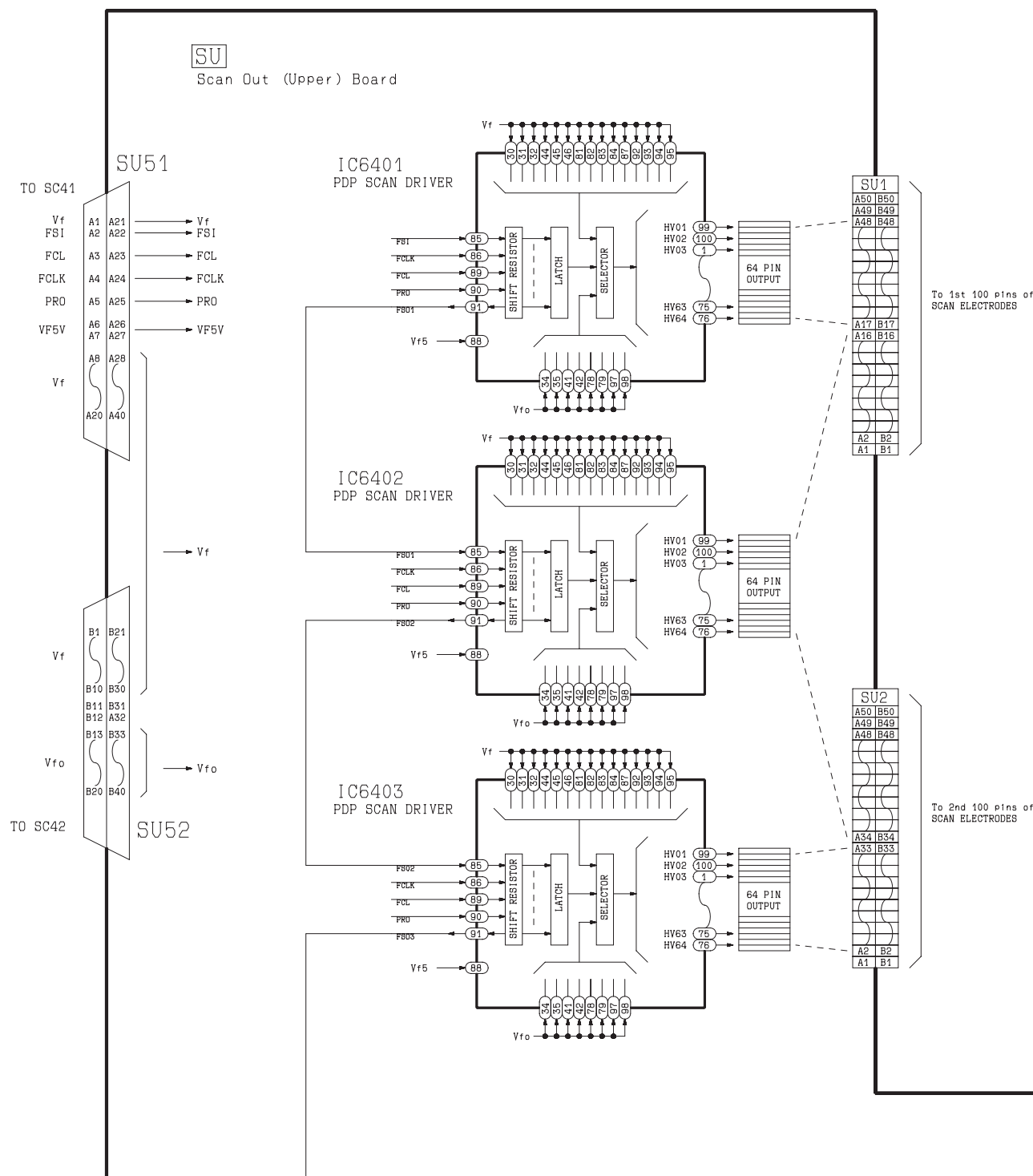
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B

C

D

E



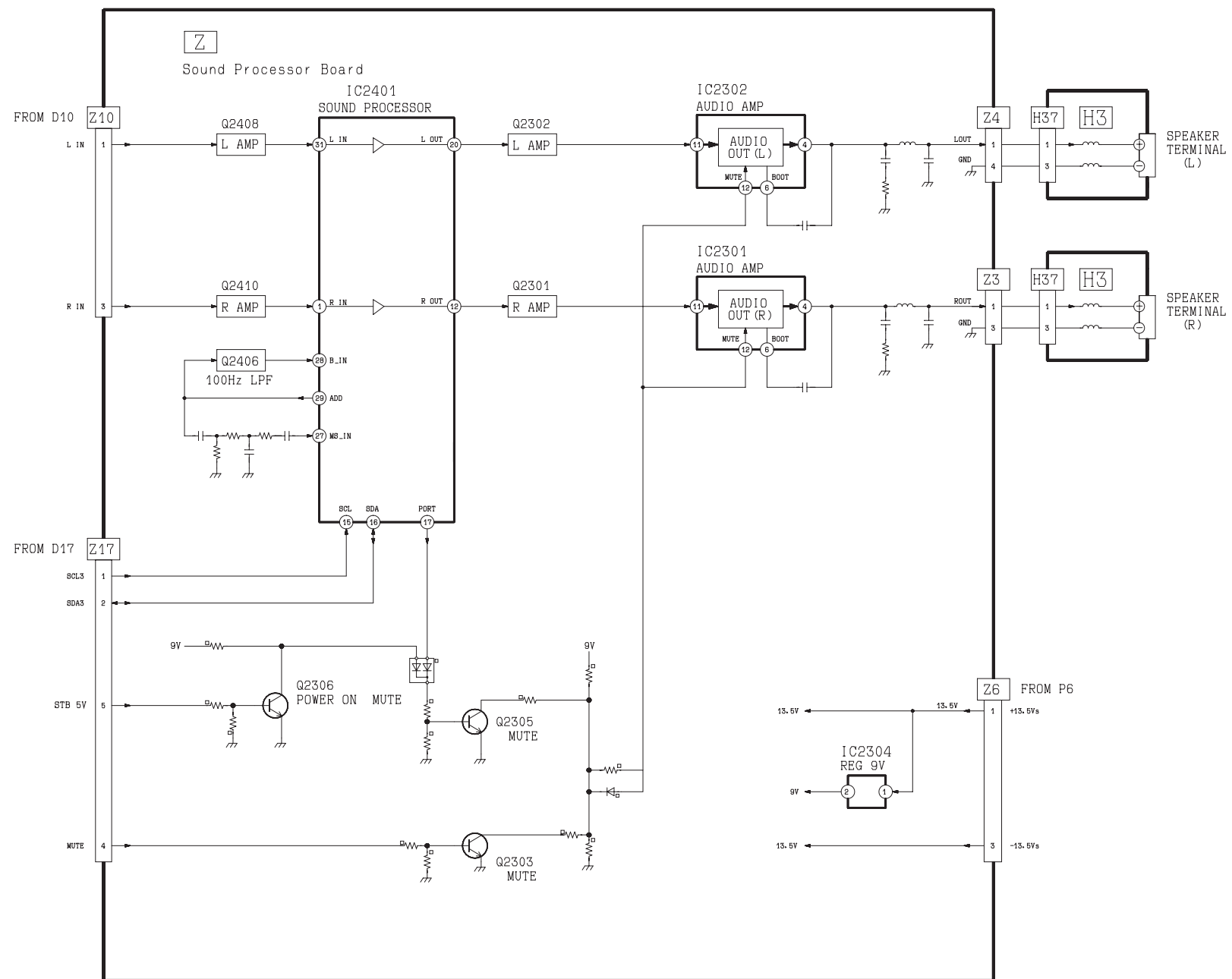
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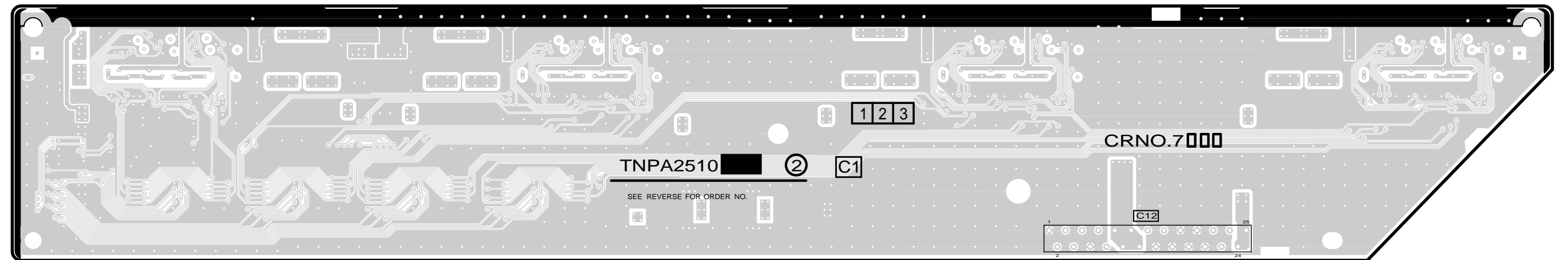
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D

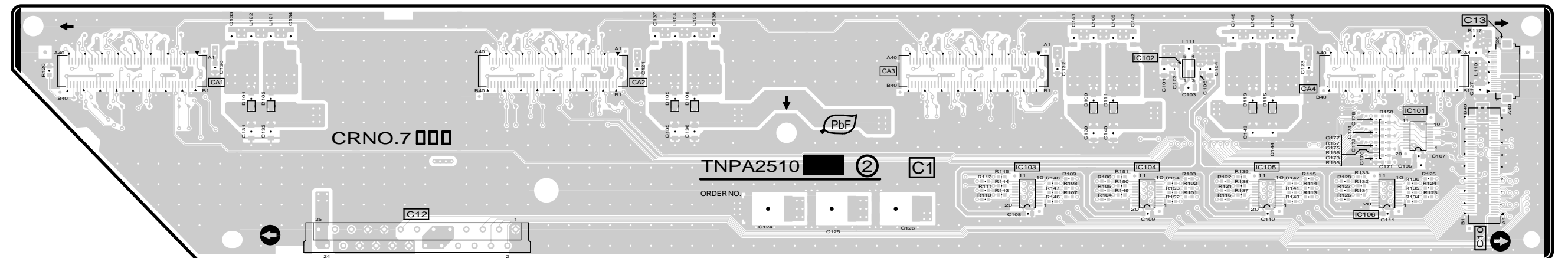
E



C1-BOARD (FOIL SIDE)
TNPA2510



C1-BOARD (COMPONENT SIDE)
TNPA2510



6

5

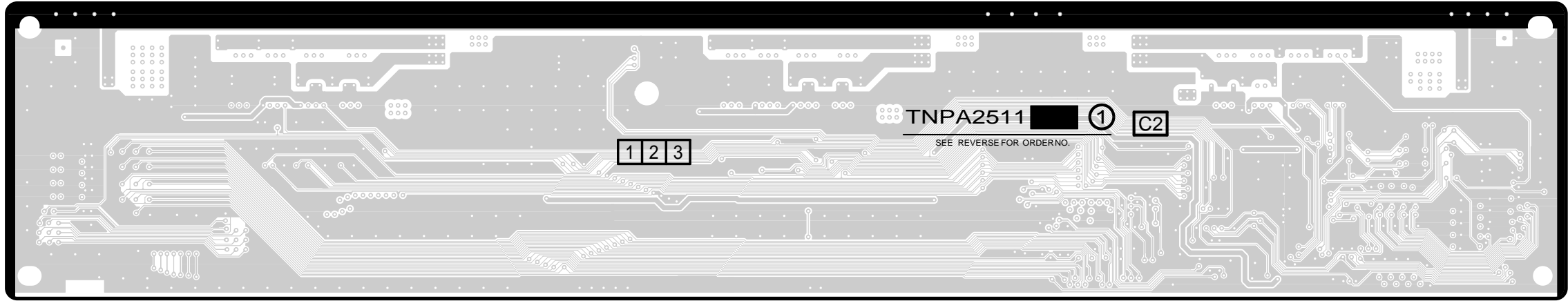
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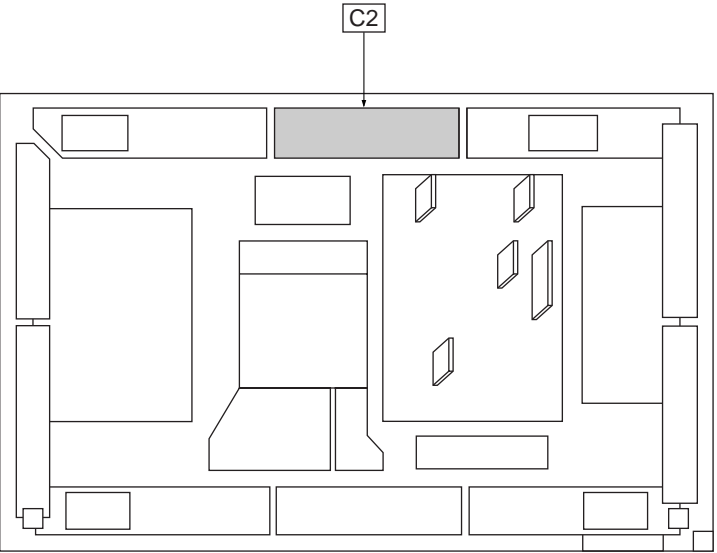
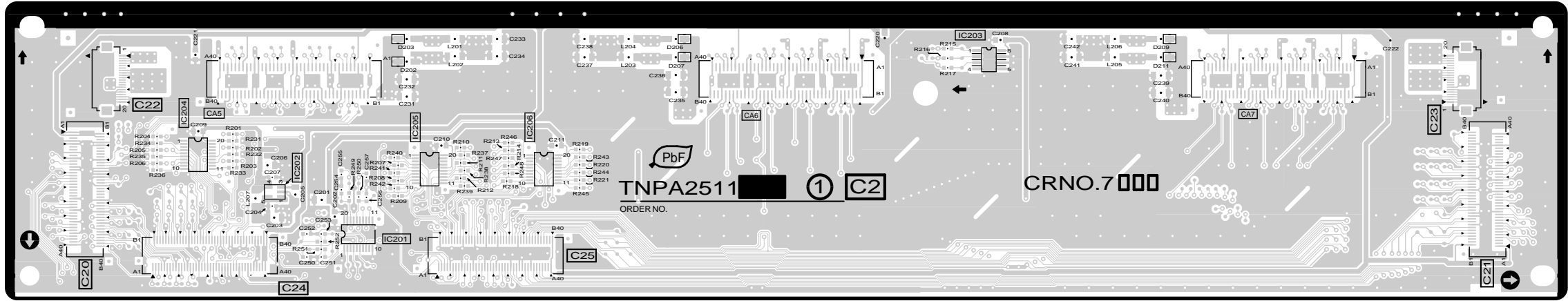
2

1

C2-BOARD (FOIL SIDE)
TNPA2511



C2-BOARD (COMPONENT SIDE)
TNPA2511



6

5

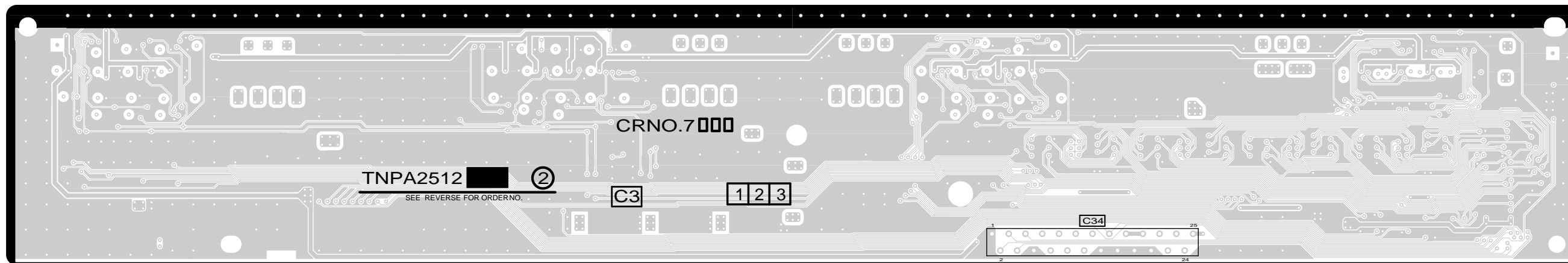
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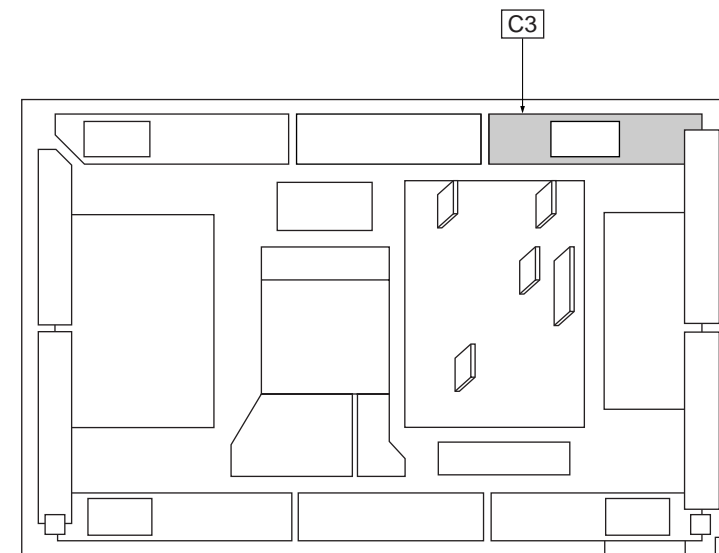
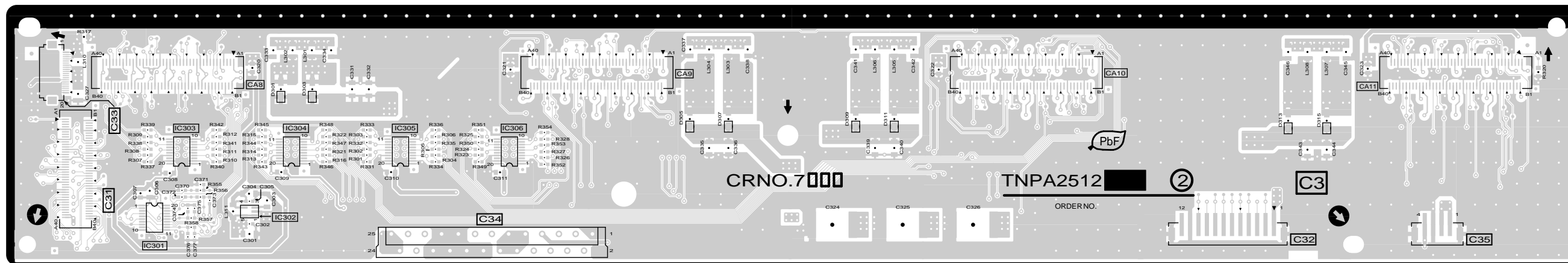
2

1

C3-BOARD (FOIL SIDE)
TNPA2512



C3-BOARD (COMPONENT SIDE)
TNPA2512



A

B

C

D

E

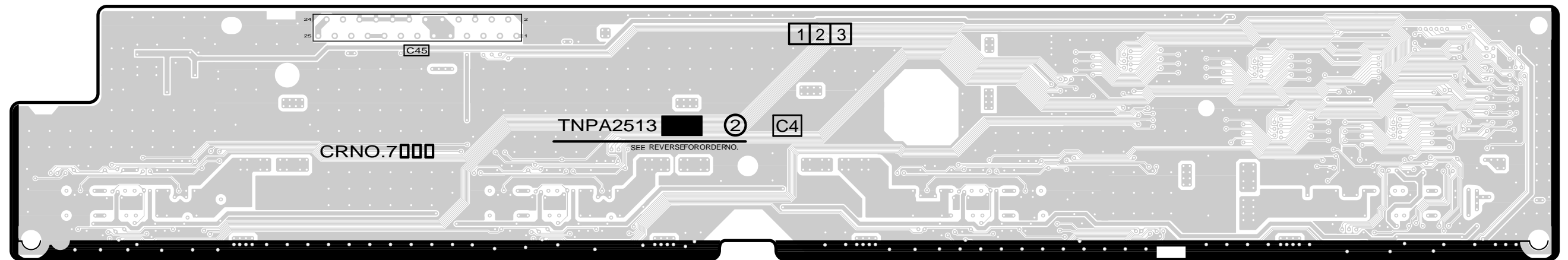
F

G

H

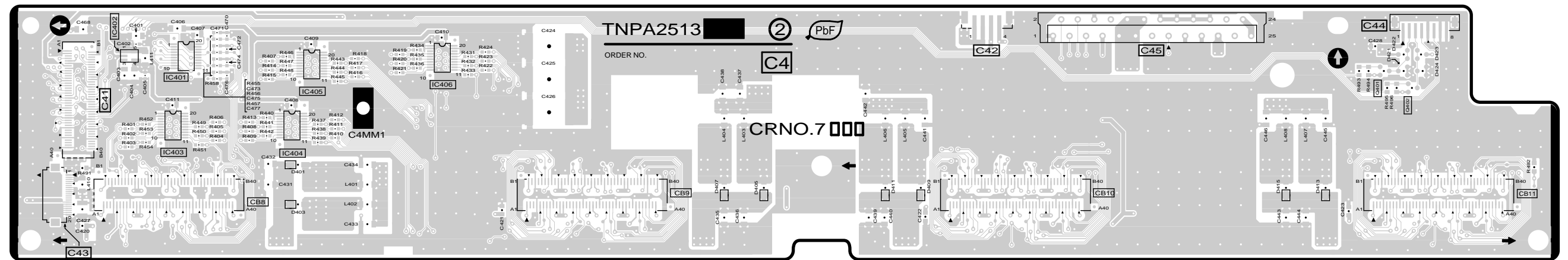
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C4-BOARD (FOIL SIDE)
TNPA2513

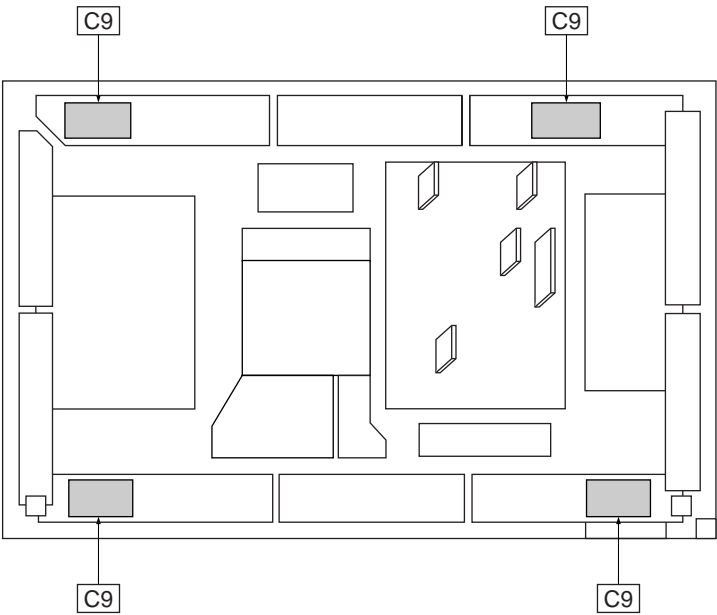
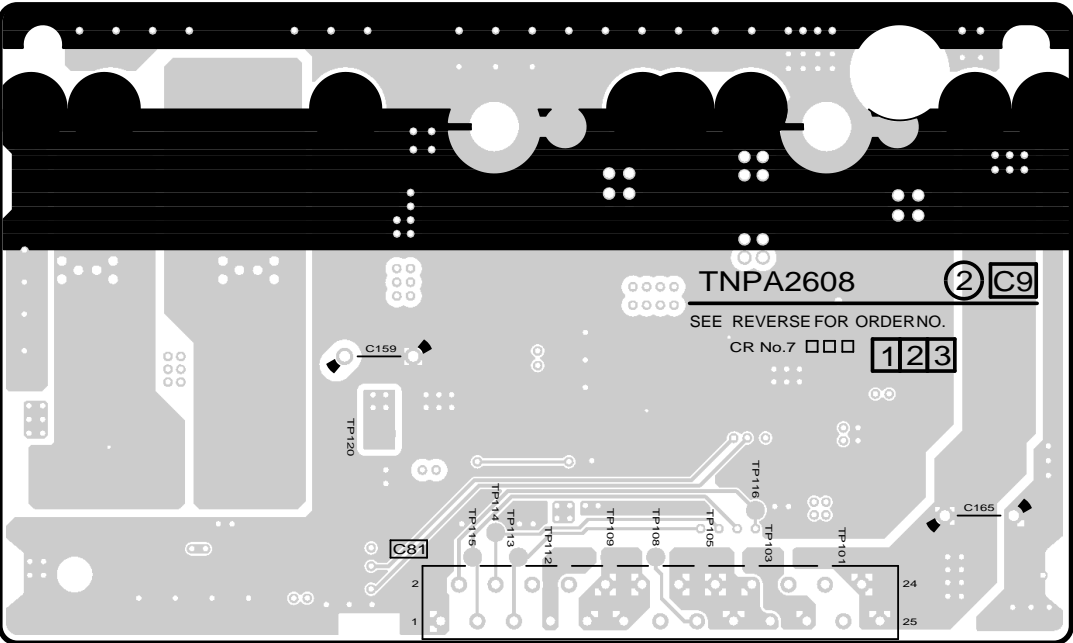


C4-BOARD (COMPONENT SIDE)

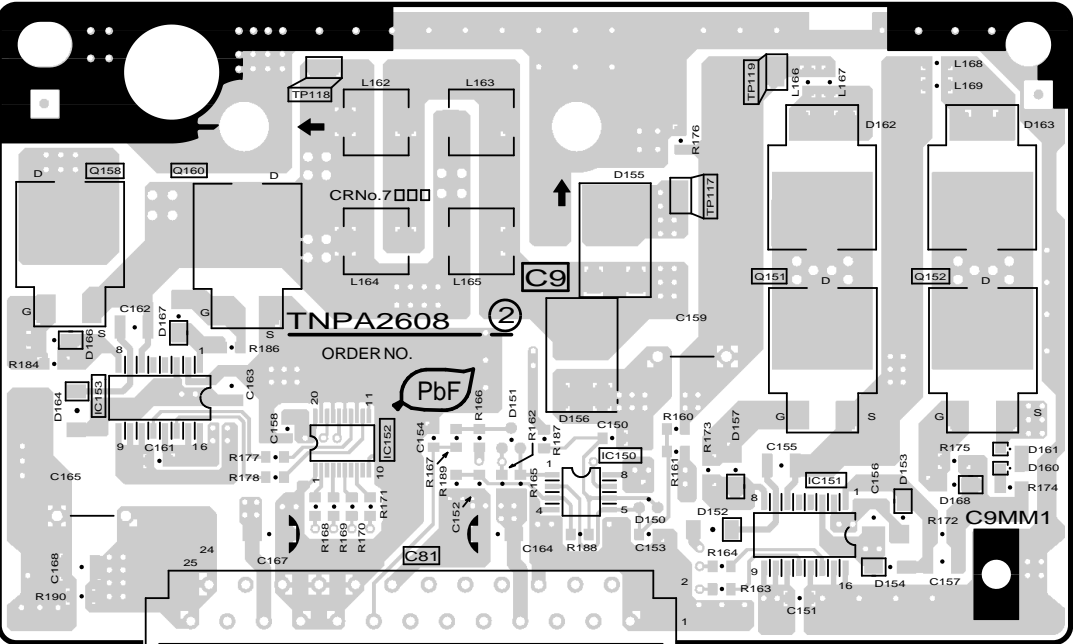
TNPA2513



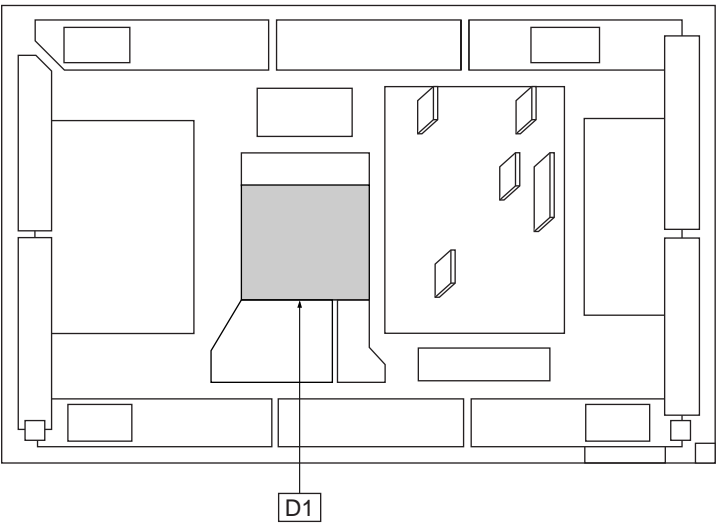
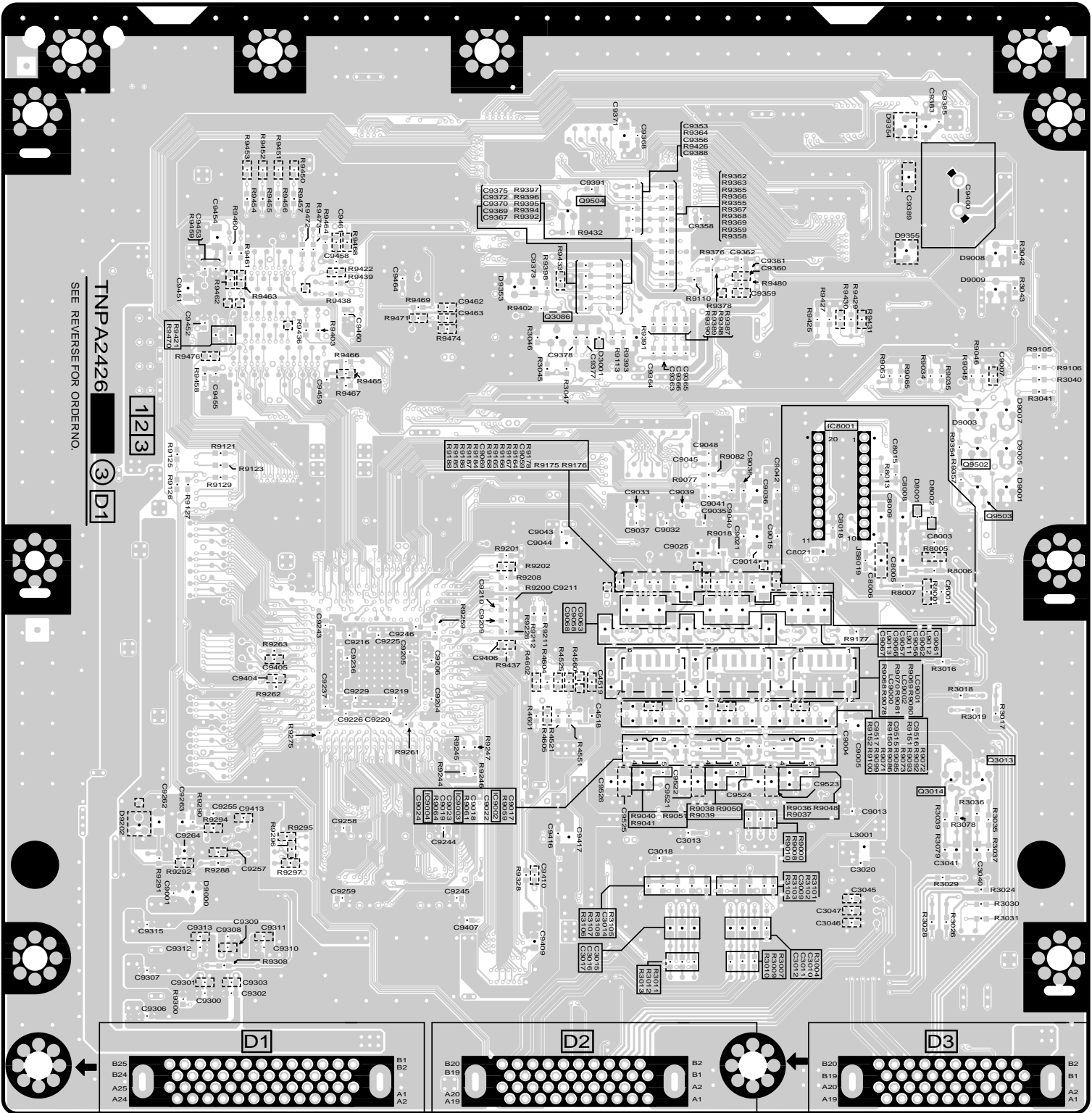
C9-BOARD (FOIL SIDE)
TNPA2608



C9-BOARD (COMPONENT SIDE)
TNPA2608



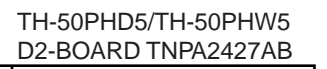
D1-BOARD(FOIL SIDE)
TZTNP01MHSB



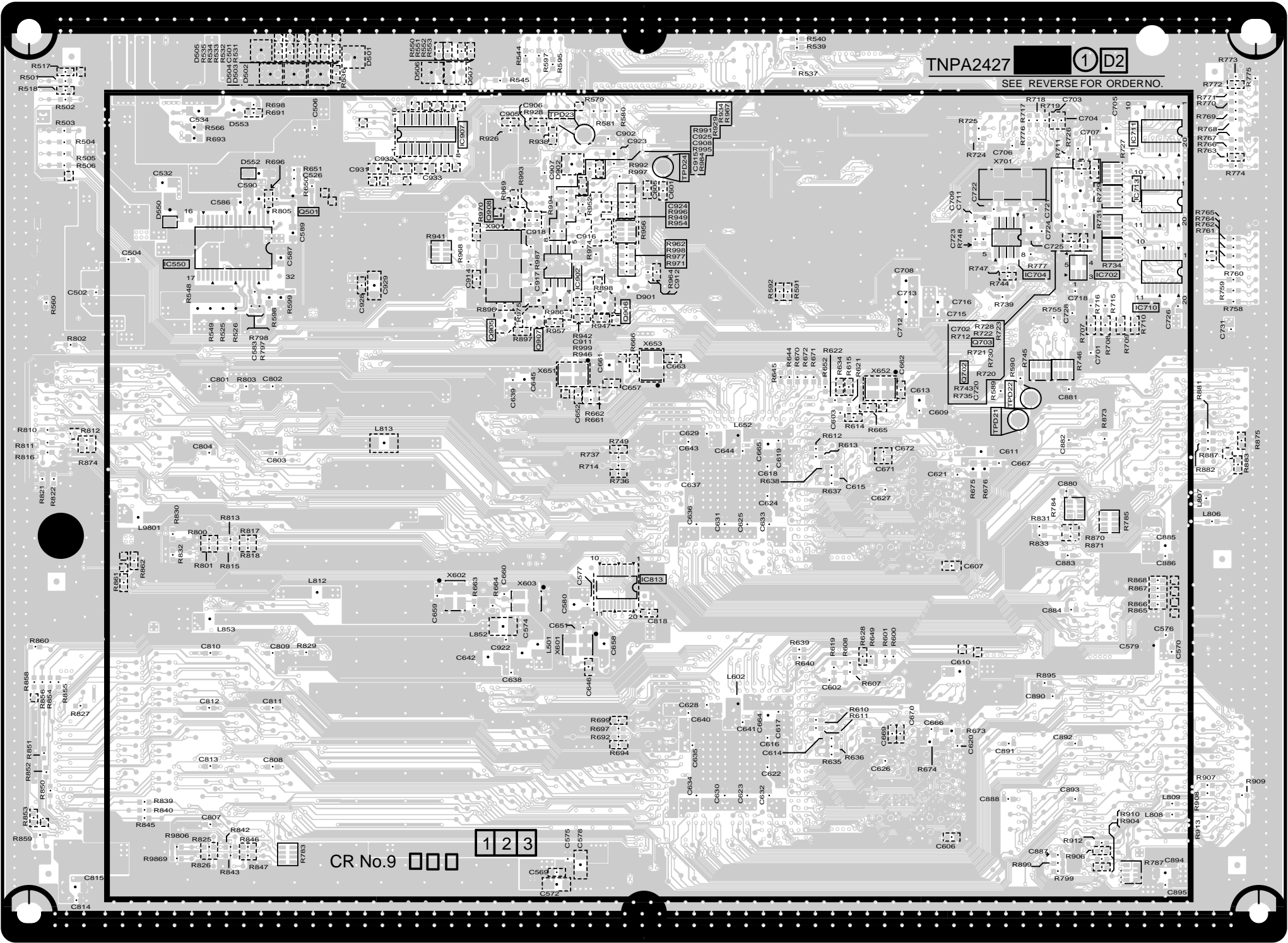
Parts Location

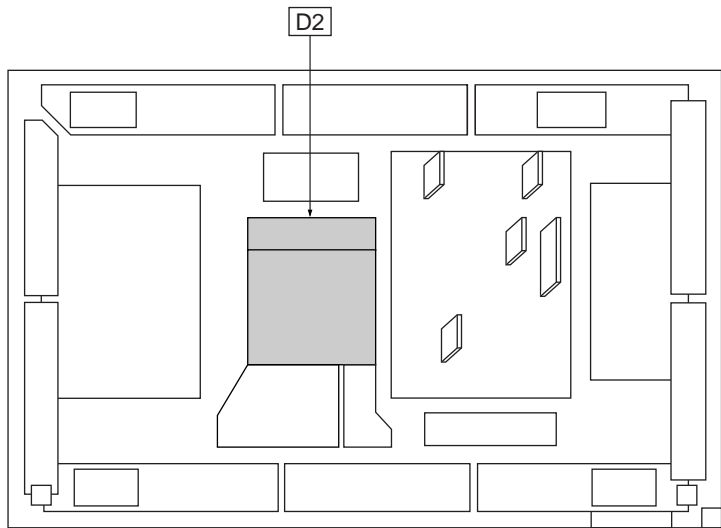
D1-BOARD (FOIL SIDE)			
IC	TRANSISTOR		
IC8001	E-4	Q3013	E-2
IC9002	C-2	Q3014	E-2
IC9003	C-2	Q3086	C-4
IC9004	C-2	Q9502	E-4
		Q9503	E-4
		Q9504	C-5

1



D2-BOARD (FOIL SIDE)
TNPA2427AB





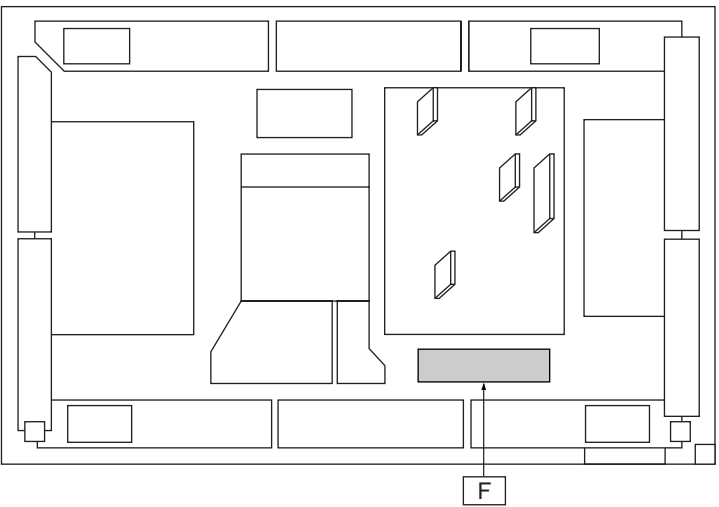
Parts Location

D2-BOARD (FOIL SIDE)					
IC		TRANSISTOR		TP	
IC9550	B-4	Q9501	B-5	TPD21	F-3
IC9702	G-4	Q9702	F-4	TPD22	F-4
IC9704	F-4	Q9703	F-4	TPD23	D-5
IC9710	G-4	Q9905	C-4	TPD24	D-5
IC9711	G-5	Q9906	D-4		
IC9713	G-5	Q9907	D-4		
IC9813	D-3	Q9908	C-5		
IC9902	D-4				
IC9907	C-5				

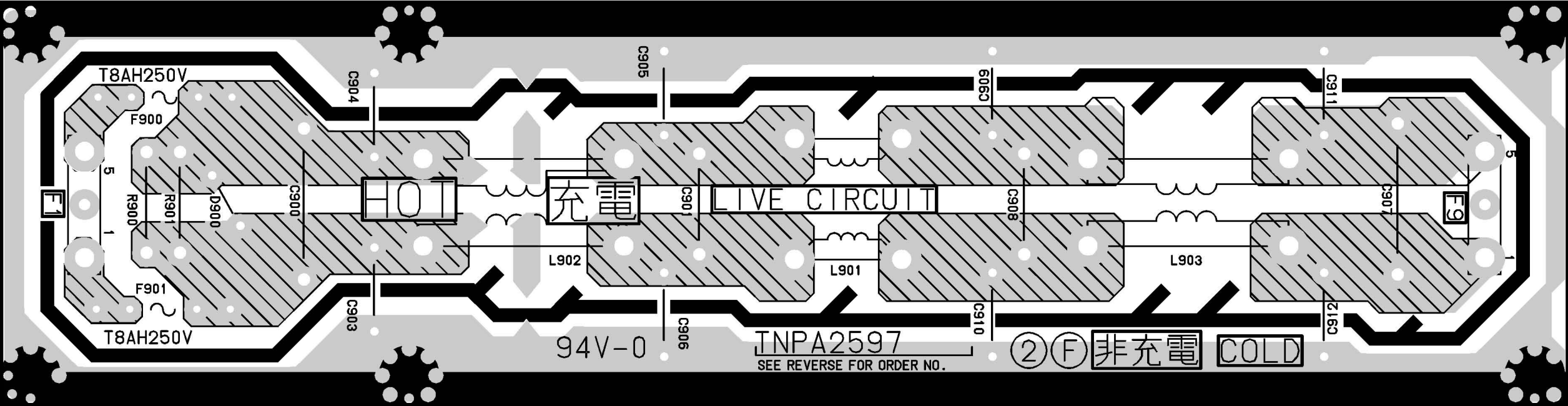
Parts Location

D2-BOARD (COMPONENT SIDE)					
IC				TRANSISTOR	
IC9551	G-5	IC9806	F-1	Q9801	F-2
IC9601	D-2	IC9807	F-2	Q9901	F-4
IC9602	C-1	IC9808	F-2	Q9902	F-4
IC9603	E-2	IC9809	F-2	Q9903	E-4
IC9604	D-2	IC9810	F-2	Q9904	E-5
IC9611	A-2	IC9811	F-2		
IC9612	E-3	IC9812	F-2		
IC9651	D-4	IC9821	B-3		
IC9652	B-3	IC9822	B-4		
IC9653	E-3	IC9823	B-3		
IC9654	E-4	IC9824	B-3		
IC9700	B-4	IC9825	B-2		
IC9701	B-4	IC9826	B-1		
IC9703	C-4	IC9827	B-1		
IC9712	B-4	IC9828	B-2		
IC9801	F-3	IC9829	B-2		
IC9802	F-4	IC9830	B-2		
IC9803	F-4	IC9831	B-2		
IC9804	F-3	IC9832	B-1		
IC9805	F-3	IC9900	E-4		
		IC9904	E-4		
		IC9905	E-4		

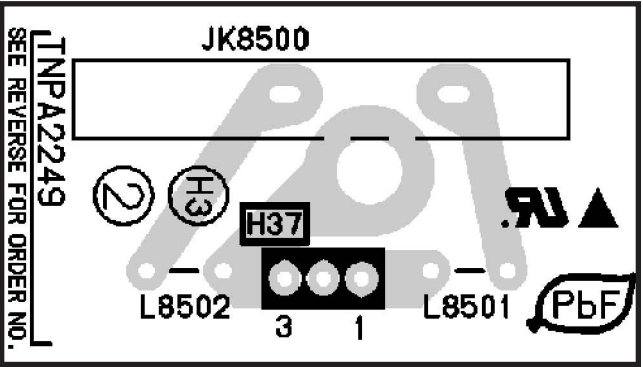
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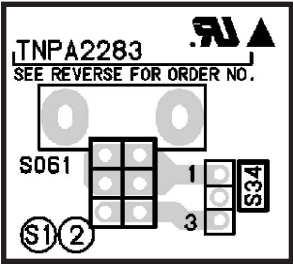
F-BOARD
TXN/F10MHS



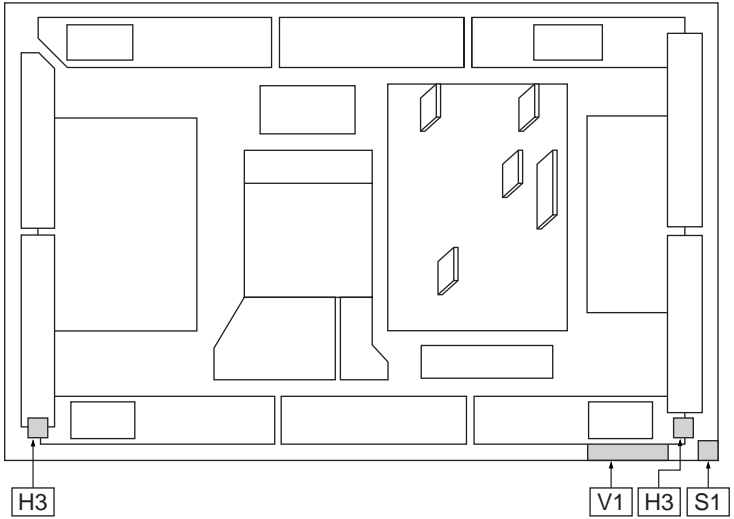
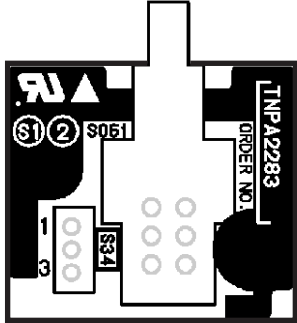
H3-BOARD
TNPA2249



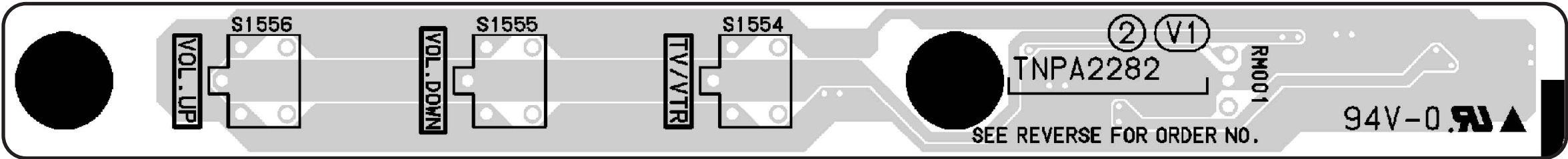
S1-BOARD(FOIL SIDE)
TNPA2283AC



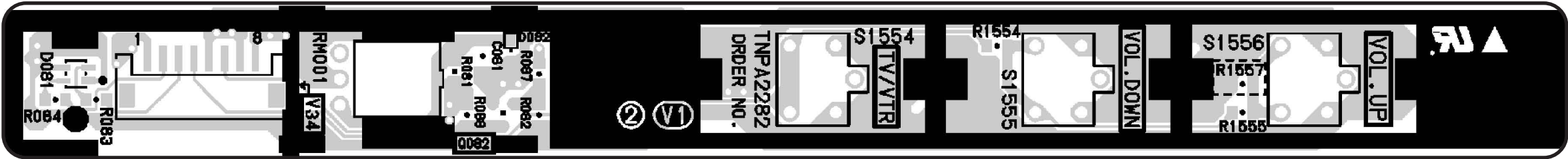
S1-BOARD(COMPONENT SIDE)
TNPA2283AC

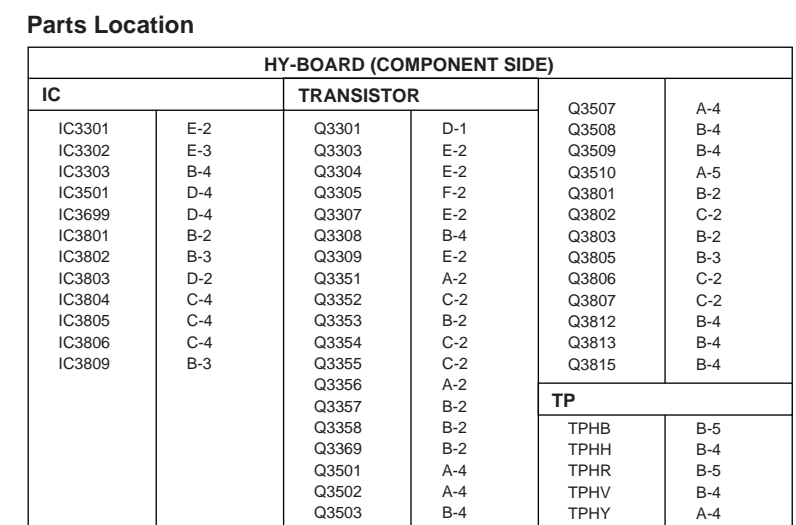


V1-BOARD(FOIL SIDE)
TNPA2282AC

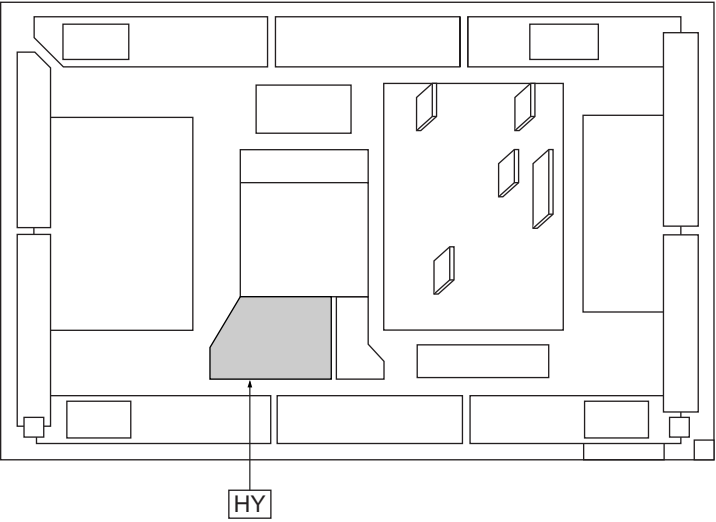
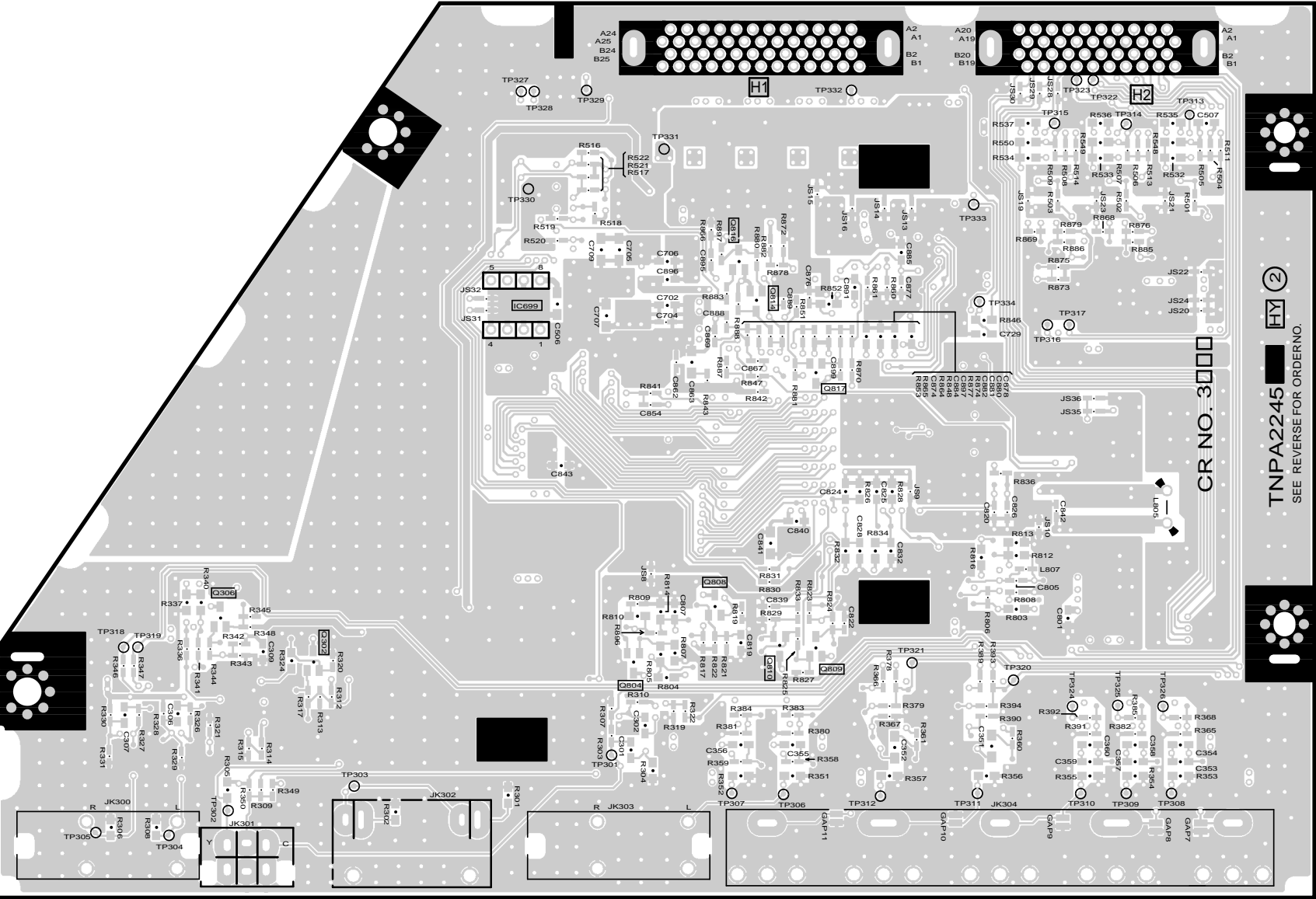


V1-BOARD(COMPONENT SIDE)
TNPA2282AC





HY-BOARD(FOIL SIDE)
TXNHY30JHS



Parts Location

HY-BOARD (FOIL SIDE)			
IC	TRANSISTOR		
IC3699	C-4	Q3302	B-2
		Q3306	B-2
		Q3804	C-2
		Q3808	D-2
		Q3809	D-2
		Q3810	D-2
		Q3814	D-4
		Q3816	D-4
		Q3817	D-3

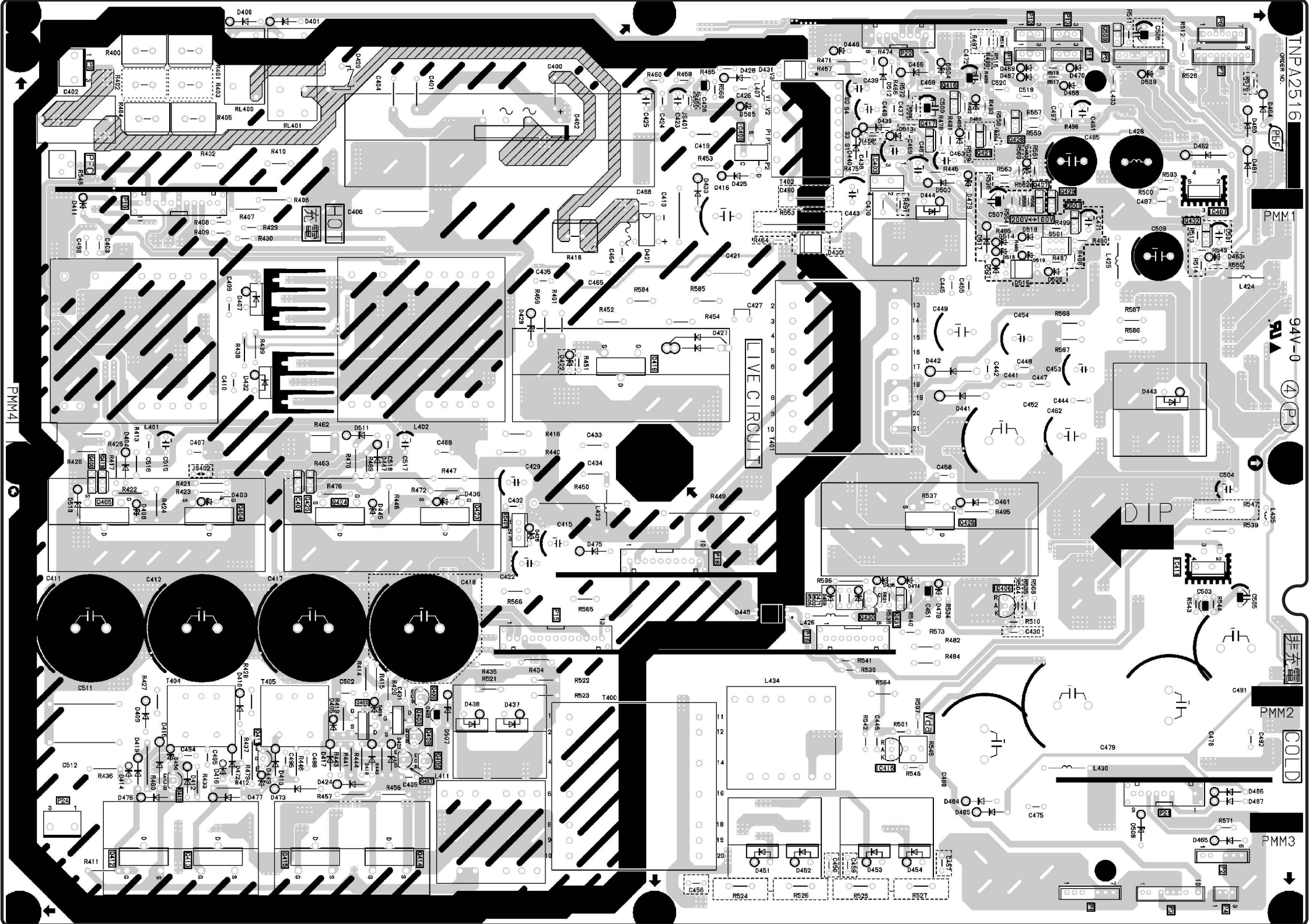


HZ-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR			
IC3301	E-2	Q3301	D-2	Q3507	A-4
IC3301	E-2	Q3303	D-2	Q3508	B-4
IC3302	D-2	Q3304	E-2	Q3509	B-4
IC3303	B-4	Q3305	E-2	Q3510	B-5
IC3501	D-4	Q3307	D-2	Q3801	B-2
IC3699	D-4	Q3308	B-4	Q3802	C-2
IC3801	B-2	Q3309	D-2	Q3803	B-2
IC3802	B-3	Q3351	A-2	Q3805	B-3
IC3803	D-3	Q3352	C-2	Q3806	C-2
IC3804	C-4	Q3353	B-2	Q3807	C-2
IC3805	C-4	Q3354	C-2	Q3812	B-4
IC3806	C-4	Q3355	C-2	Q3813	B-4
IC3809	B-3	Q3356	A-2	Q3815	B-4
		Q3357	B-2	TP	
		Q3358	B-2	TPHB1	B-5
		Q3359	B-2	TPHH1	B-4
		Q3501	A-4	TPHR1	B-5
		Q3502	A-4	TPHV1	B-4
		Q3503	B-4	TPHY1	A-4



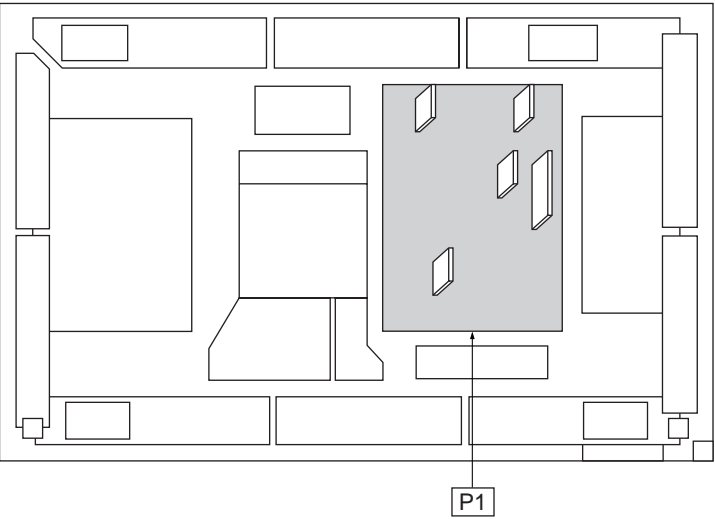
HZ-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC3699	B-4	Q3302	B-2
		Q3306	A-2
		Q3804	B-2
		Q3808	C-3
		Q3809	C-2
		Q3810	C-2
		Q3814	C-4
		Q3816	C-4
		Q3817	C-3

P1-BOARD (COMPONENT SIDE)
TXNP110MHS (UY/UZ VERSION)
TXNP11MHSE (EXCEPT UY/UZ VERSION)



TH-50PHD5/TH-50PHW5 P1-BOARD
TXNP110MHS (UY/UZ VERSION)
TXNP11MHSE (EXCEPT UY/UZ VERSION)

TH-50PHD5/TH-50PHW5 P1-BOARD
TXNP110MHS (UY/UZ VERSION)
TXNP11MHSE (EXCEPT UY/UZ VERSION)



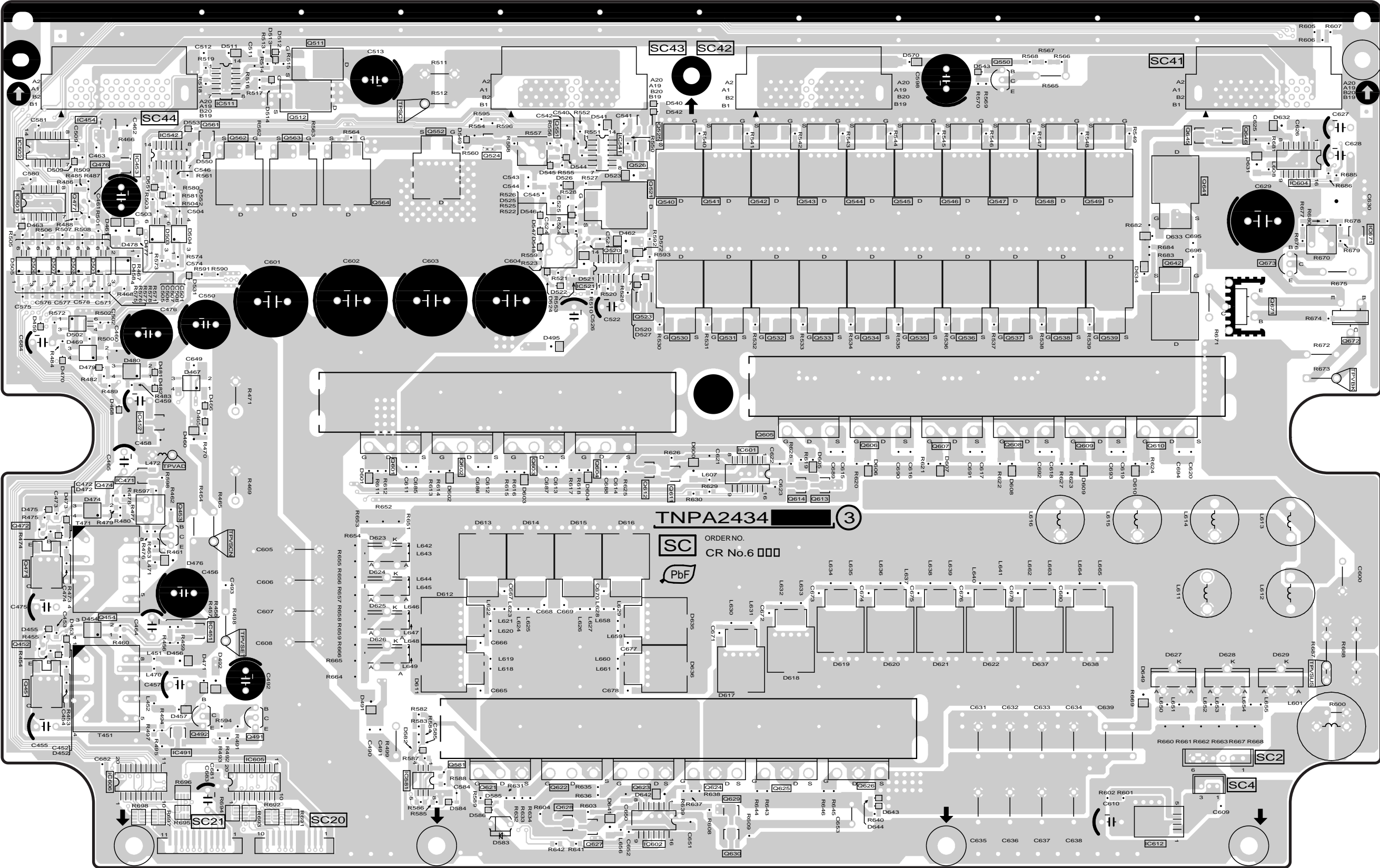
Parts Location

P1-BOARD (FOIL SIDE)					
IC		TRANSISTOR			
IC400	D-5	Q400	H-3	Q417	C-5
IC401	E-3	Q401	G-3	Q418	C-6
IC403	C-5	Q402	F-2	Q419	H-3
IC406	C-3	Q403	F-2	Q421	C-5
IC407	A-5	Q404	G-3	Q423	F-3
IC411	B-3	Q405	H-3	Q424	F-3
IC416	C-2	Q406	F-2	Q425	F-3
		Q407	F-2	Q426	C-3
		Q408	F-2	Q427	B-5
		Q409	F-2	Q428	C-5
		Q410	G-2	Q429	B-5
		Q411	G-2	Q430	C-3
		Q412	H-2	Q431	C-3
		Q413	G-1	Q132	A-5
		Q414	F-1	Q500	B-6
		Q415	F-1	Q501	B-5
		Q416	E-4		

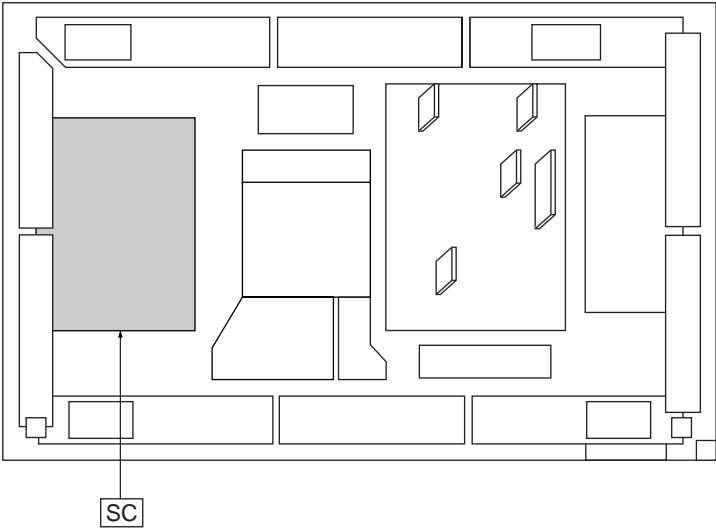
Parts Location

P1-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR			
IC400	E-5	Q400	A-3	Q417	F-5
IC401	D-3	Q401	C-3	Q418	F-5
IC403	F-5	Q402	C-2	Q419	A-3
IC406	G-3	Q403	C-2	Q421	F-5
IC407	H-5	Q404	B-3	Q423	C-3
IC411	H-3	Q405	A-3	Q424	C-3
IC416	F-2	Q406	C-2	Q425	C-3
		Q407	C-2	Q426	F-3
		Q408	C-2	Q427	G-5
		Q409	C-2	Q428	G-5
		Q410	B-2	Q429	G-5
		Q411	B-2	Q430	F-3
		Q412	B-1	Q431	F-3
		Q413	B-1	Q432	H-5
		Q414	C-1	Q500	G-6
		Q415	C-1	Q501	G-5
		Q416	E-4		

SC-BOARD (COMPONENT SIDE)
TNPA2434AB



[illegible]



Parts Location

SC-BOARD (FOIL SIDE)					
TRANSISTOR		TP		TP41	A-6
Q6453	H-3	TP1	A-1	TP42	A-6
Q6491	H-2	TP2	A-2	TP43	A-6
Q6492	H-2	TP3	B-2	TP44	I-6
Q6550	C-6	TP4	B-2	TP45	A-6
Q6601	G-4	TP6	B-1	TP46	I-6
Q6602	G-4	TP7	B-1	TP47	I-6
Q6603	F-3	TP8	B-1	TP48	I-6
Q6604	F-3	TP9	B-1	TP49	I-6
Q6605	D-5	TP10	H-1	TP50	A-6
Q6606	D-4	TP11	H-1	TP51	I-6
Q6607	C-4	TP12	H-1	TP54	H-6
Q6608	C-4	TP13	H-1	TP55	H-6
Q6609	C-4	TP14	H-1	TP56	G-6
Q6610	B-4	TP15	H-1	TP57	F-6
Q6621	F-1	TP16	H-1	TP58	F-6
Q6622	F-1	TP17	H-1	TP59	E-6
Q6623	E-1	TP18	H-1	TP60	D-6
Q6624	E-1	TP20	H-1	TP61	D-6
Q6625	D-1	TP21	H-1	TP62	C-6
Q6626	D-1	TP22	H-1	TP63	C-6
Q6671	A-4	TP23	H-1	TP70	H-5
Q6672	A-4	TP24	H-1	TP71	A-4
Q6673	A-4	TP25	H-1	TP72	A-5
		TP26	H-1	TP74	A-4
		TP27	H-1	TP75	A-5
		TP28	H-1	TP76	H-2
		TP29	H-1	TP77	H-2
		TP30	H-1	TP80	F-5
		TP31	H-1	TP81	F-6
		TP40	A-6	TP83	D-6
				TP84	D-6

Parts Location

SC-BOARD (COMPONENT SIDE)							
IC		TRANSISTOR		Q6540	E-5	Q6621	D-1
IC6451	B-2	Q6451	A-2	Q6541	E-5	Q6622	D-1
IC6452	B-4	Q6452	A-2	Q6542	F-5	Q6623	E-1
IC6453	B-5	Q6453	B-3	Q6543	F-5	Q6624	E-1
IC6454	A-5	Q6454	A-2	Q6544	F-5	Q6625	F-1
IC6471	A-3	Q6471	A-3	Q6545	F-5	Q6626	F-1
IC6491	B-1	Q6472	A-3	Q6546	G-5	Q6627	D-1
IC6501	A-5	Q6474	A-3	Q6547	G-5	Q6628	D-1
IC6502	A-5	Q6476	A-5	Q6548	G-5	Q6629	E-1
IC6511	B-6	Q6477	A-5	Q6549	H-5	Q6630	E-1
IC6521	D-4	Q6491	B-2	Q6550	G-6	Q6641	H-5
IC6541	E-5	Q6492	B-2	Q6551	D-5	Q6642	H-5
IC6542	B-5	Q6511	C-6	Q6552	C-5	Q6645	H-5
IC6581	C-1	Q6512	C-5	Q6561	B-5	Q6646	I-5
IC6601	E-3	Q6520	E-5	Q6562	B-5	Q6671	I-4
IC6602	E-1	Q6521	E-5	Q6563	C-5	Q6672	I-4
IC6604	I-5	Q6523	E-4	Q6564	C-5	Q6673	I-5
IC6605	B-1	Q6524	D-5	Q6581	D-1	TP	
IC6606	A-1	Q6525	E-5	Q6601	C-3		
IC6612	H-1	Q6526	E-5	Q6602	D-3	TPSC1	C-6
IC6671	I-5	Q6530	E-4	Q6603	D-3	TPSVSUS	I-2
		Q6531	E-4	Q6604	D-3	TPVAD	B-3
		Q6532	E-4	Q6605	F-3	TPVBK	I-4
		Q6533	F-4	Q6606	F-3	TPVSCN	B-3
		Q6534	F-4	Q6607	G-3	TPVSET	B-2
		Q6534	G-4	Q6608	G-3		
		Q6535	G-4	Q6609	H-3		
		Q6536	G-4	Q6610	H-3		
		Q6537	G-4	Q6611	E-3		
		Q6538	G-4	Q6612	E-3		
		Q6539	H-4	Q6613	F-3		
				Q6614	F-3		

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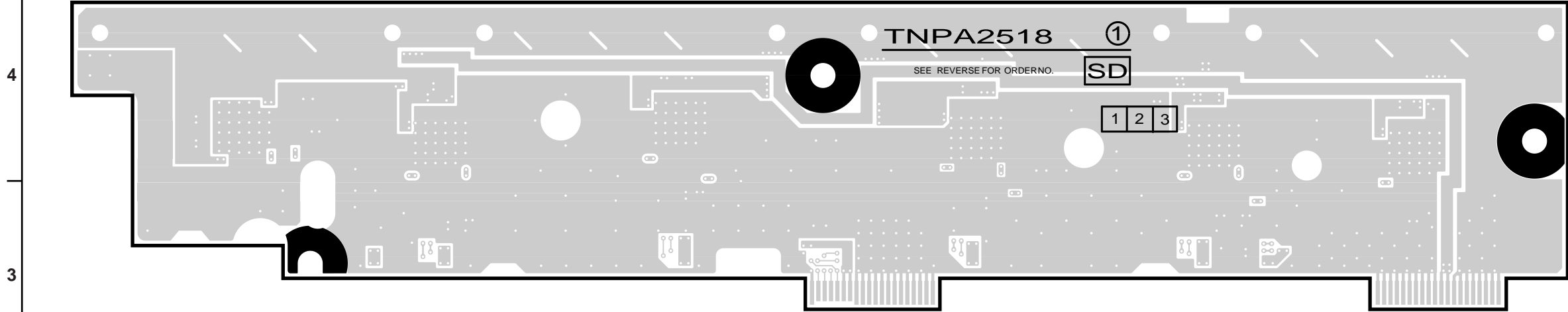
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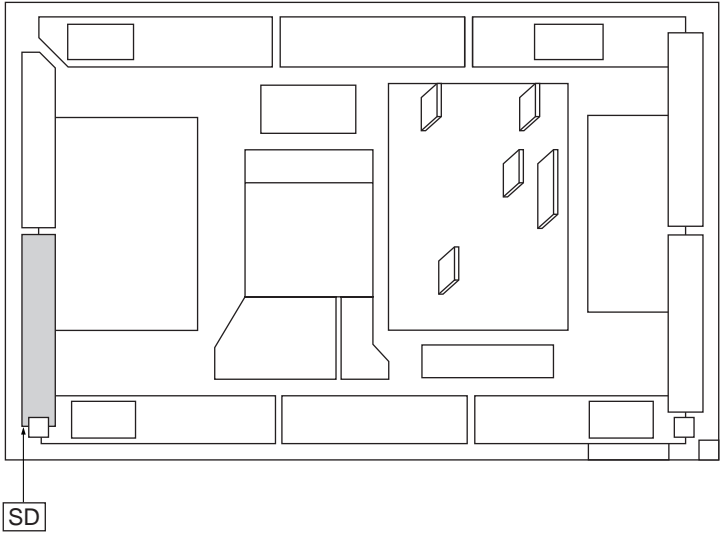
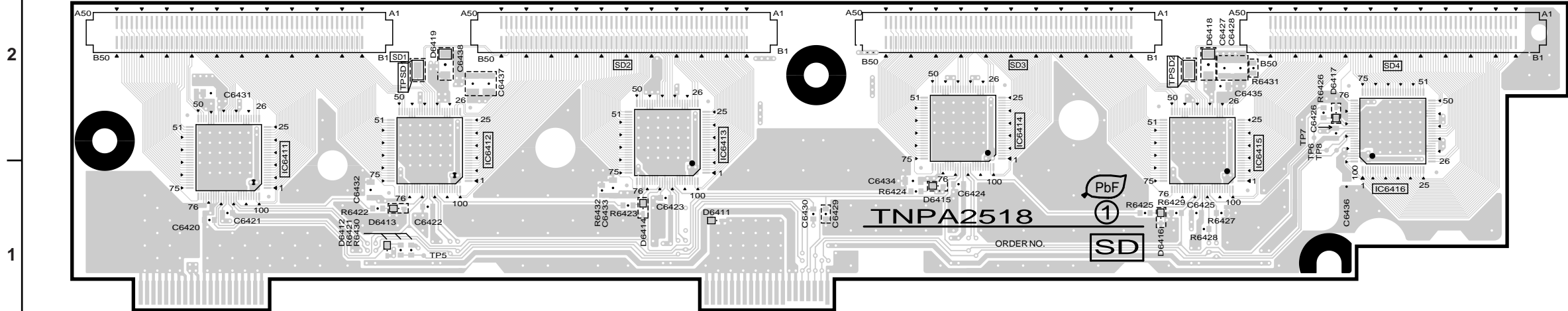
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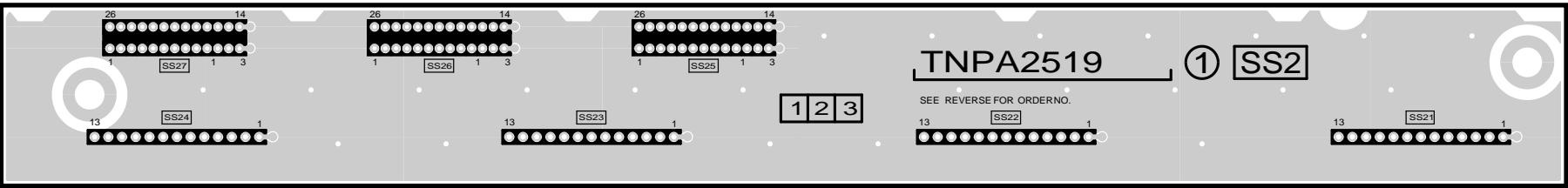
SD-BOARD (FOIL SIDE)
TNPA2518



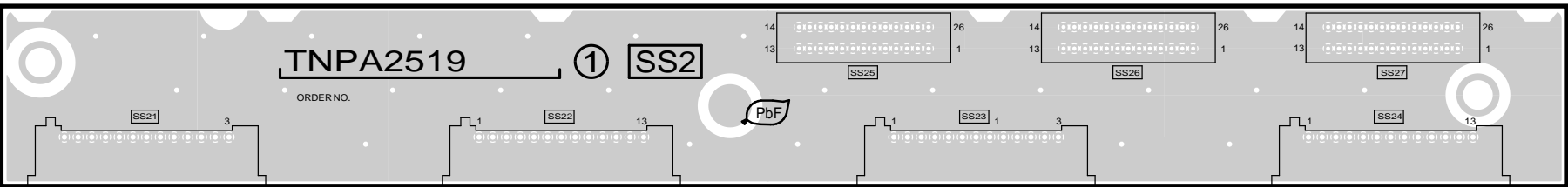
SD-BOARD (COMPONENT SIDE)
TNPA2518



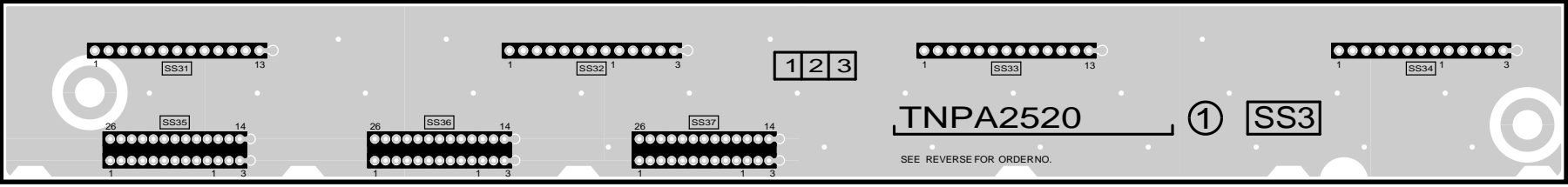
SS2-BOARD (FOIL SIDE)
TNPA2519



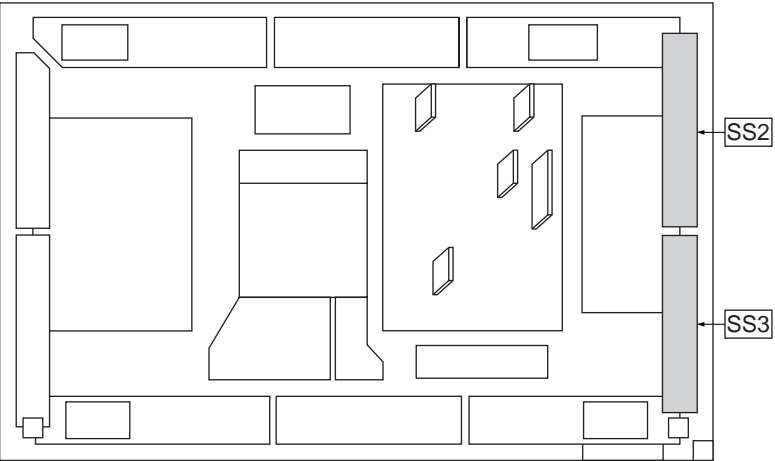
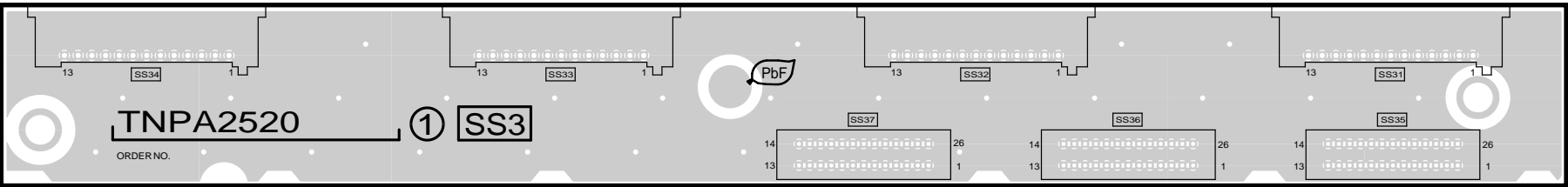
SS2-BOARD (COMPONENT SIDE)
TNPA2519



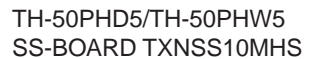
SS3-BOARD (FOIL SIDE)
TNPA2520



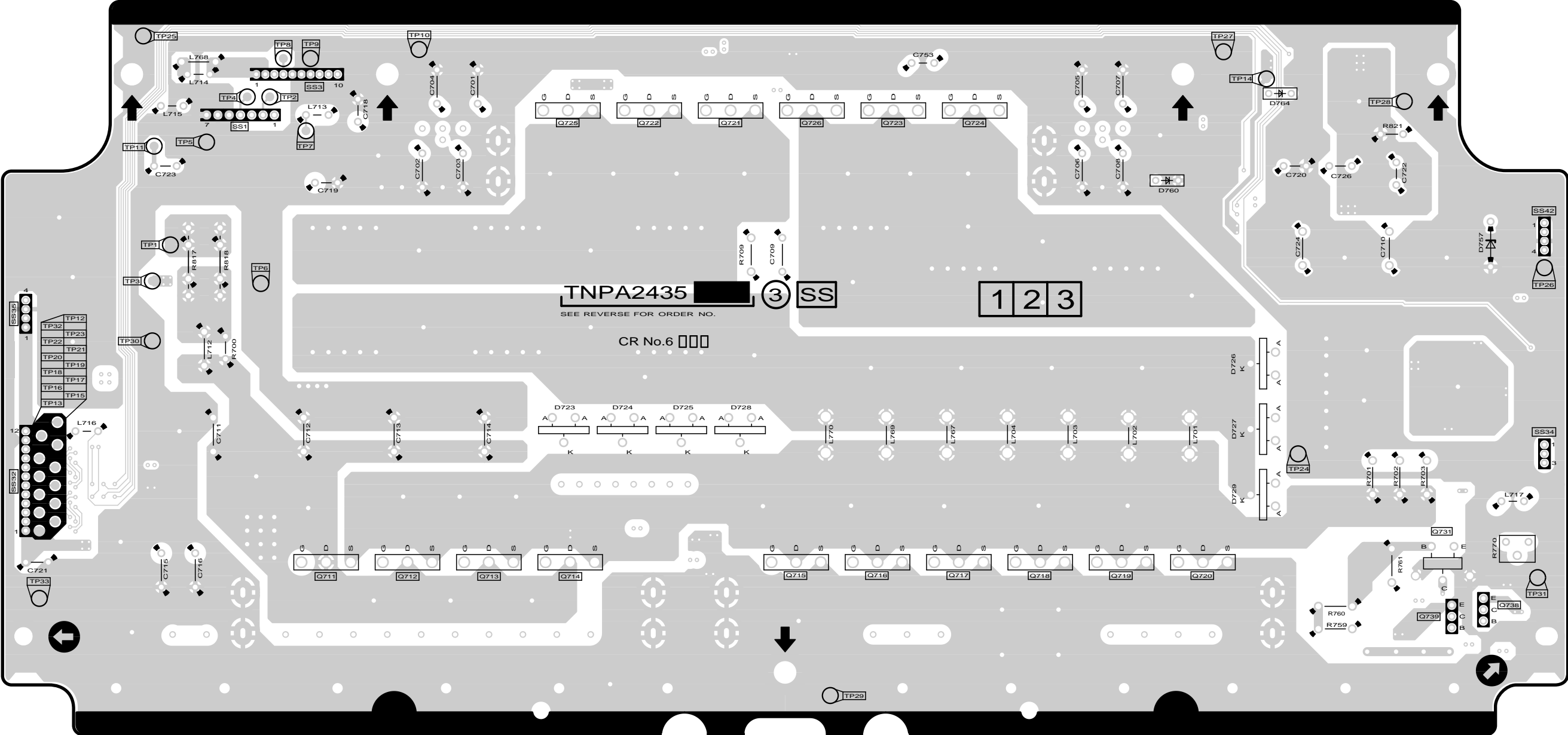
SS3-BOARD (COMPONENT SIDE)
TNPA2520

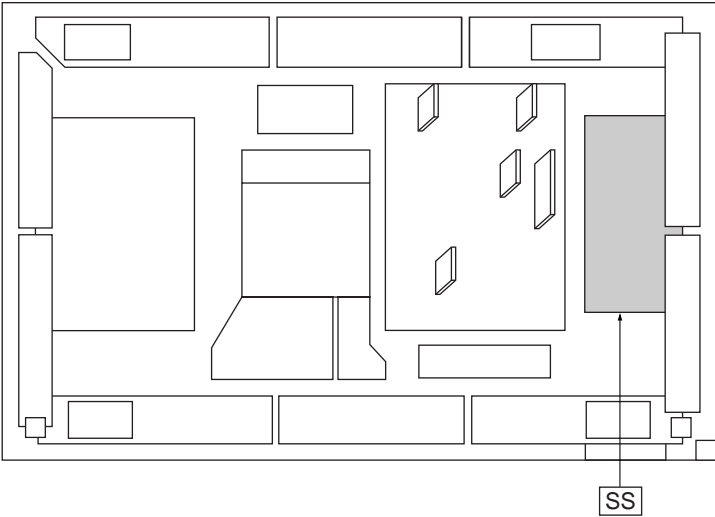


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SS-BOARD (FOIL SIDE)
TXNSS10MHS





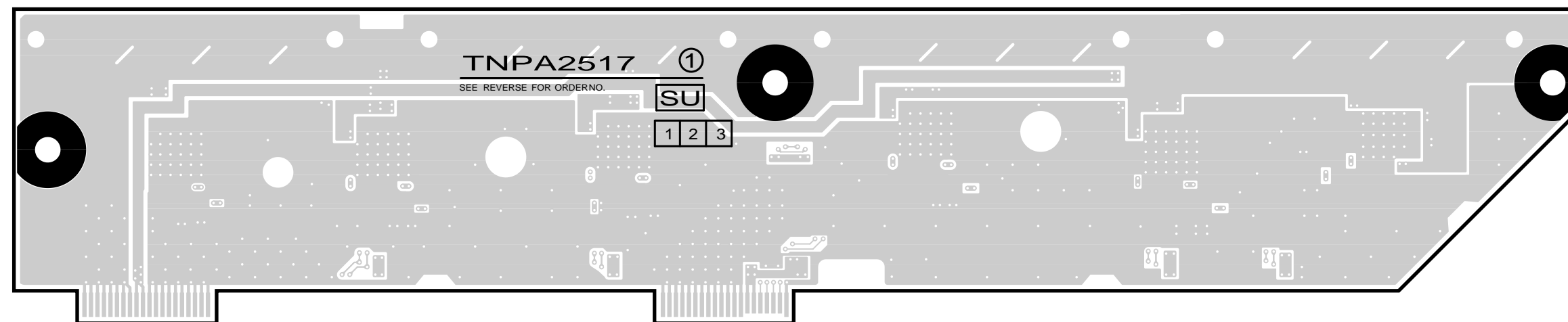
Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		TP		TP19	A-3
Q6711	C-2	TP1	B-3	TP20	A-3
Q6712	C-2	TP2	B-4	TP21	A-3
Q6713	C-2	TP3	B-3	TP22	A-3
Q6714	D-2	TP4	B-4	TP23	A-3
Q6715	E-2	TP5	B-4	TP24	H-2
Q6717	F-2	TP6	B-3	TP25	B-4
Q6718	F-2	TP7	B-4	TP26	I-3
Q6719	G-2	TP8	B-4	TP27	G-4
Q6720	G-2	TP9	B-4	TP28	H-4
Q6721	E-4	TP10	C-4	TP29	E-1
Q6722	D-4	TP11	B-4	TP30	B-3
Q6723	F-4	TP12	A-3	TP31	I-2
Q6724	F-4	TP13	A-3	TP32	A-3
Q6725	D-4	TP14	H-4	TP33	A-2
Q6726	E-4	TP15	A-3		
Q6731	I-2	TP16	A-3		
Q6738	I-1	TP17	A-3		
Q6739	I-1	TP18	A-3		

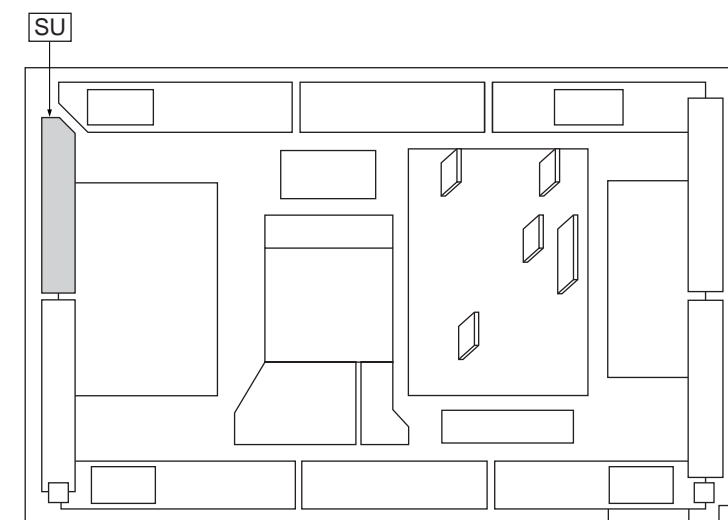
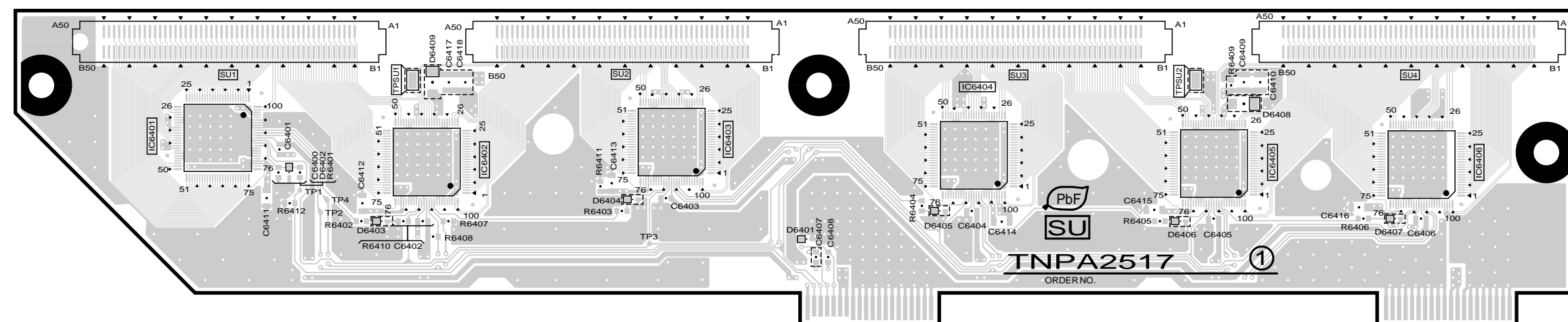
Parts Location

SS-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		Q6732	F-2
IC6701	E-4	Q6711	H-2	Q6733	F-2
IC6702	E-4	Q6712	G-2	Q6734	E-2
IC6704	A-3	Q6713	G-2	Q6735	E-2
IC6705	B-4	Q6714	F-2	Q6736	A-2
IC6706	I-2	Q6715	E-2	Q6737	A-2
IC6707	C-4	Q6716	E-2	Q6738	A-1
IC6708	H-4	Q6717	D-2	Q6739	A-1
IC6709	A-1	Q6718	D-2	Q6740	B-4
		Q6719	C-2	Q6741	C-4
		Q6720	C-2	Q6742	F-4
		Q6721	E-4	Q6743	F-4
		Q6722	F-4	Q6744	E-4
		Q6723	D-4	Q6745	E-4
		Q6724	D-4	TP	
		Q6725	G-4	TP15V	H-4
		Q6726	E-4	TPSS1	B-2
		Q6727	B-3	TPVDA	H-4
		Q6728	A-3	TPVe	A-2
		Q6729	B-4		
		Q6730	B-4		
		Q6731	A-2		

SU-BRD (FOIL SIDE)
TNPA2517



SU-BRD (COMPONENT SIDE)
TNPA2517



A

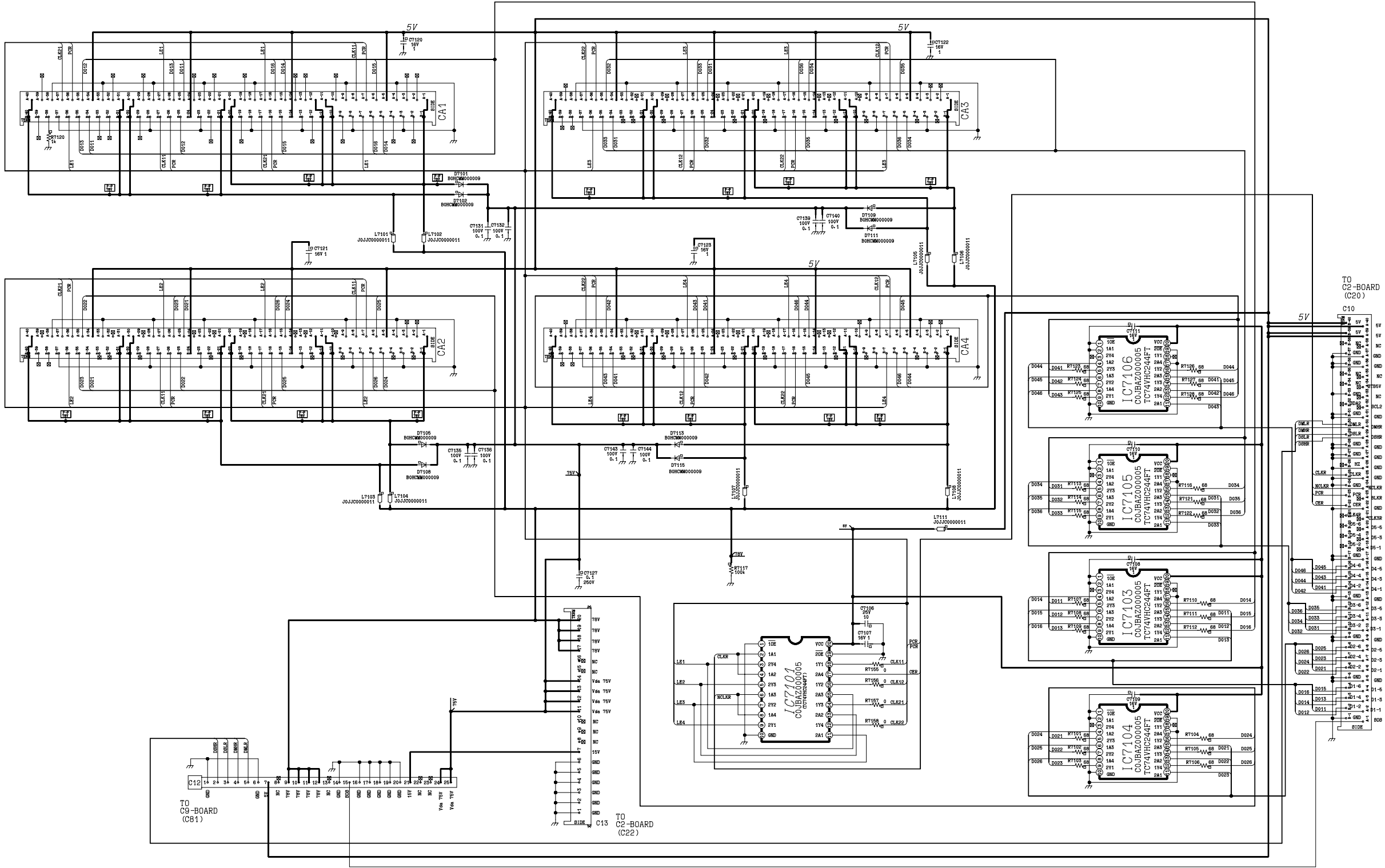
B

C

D

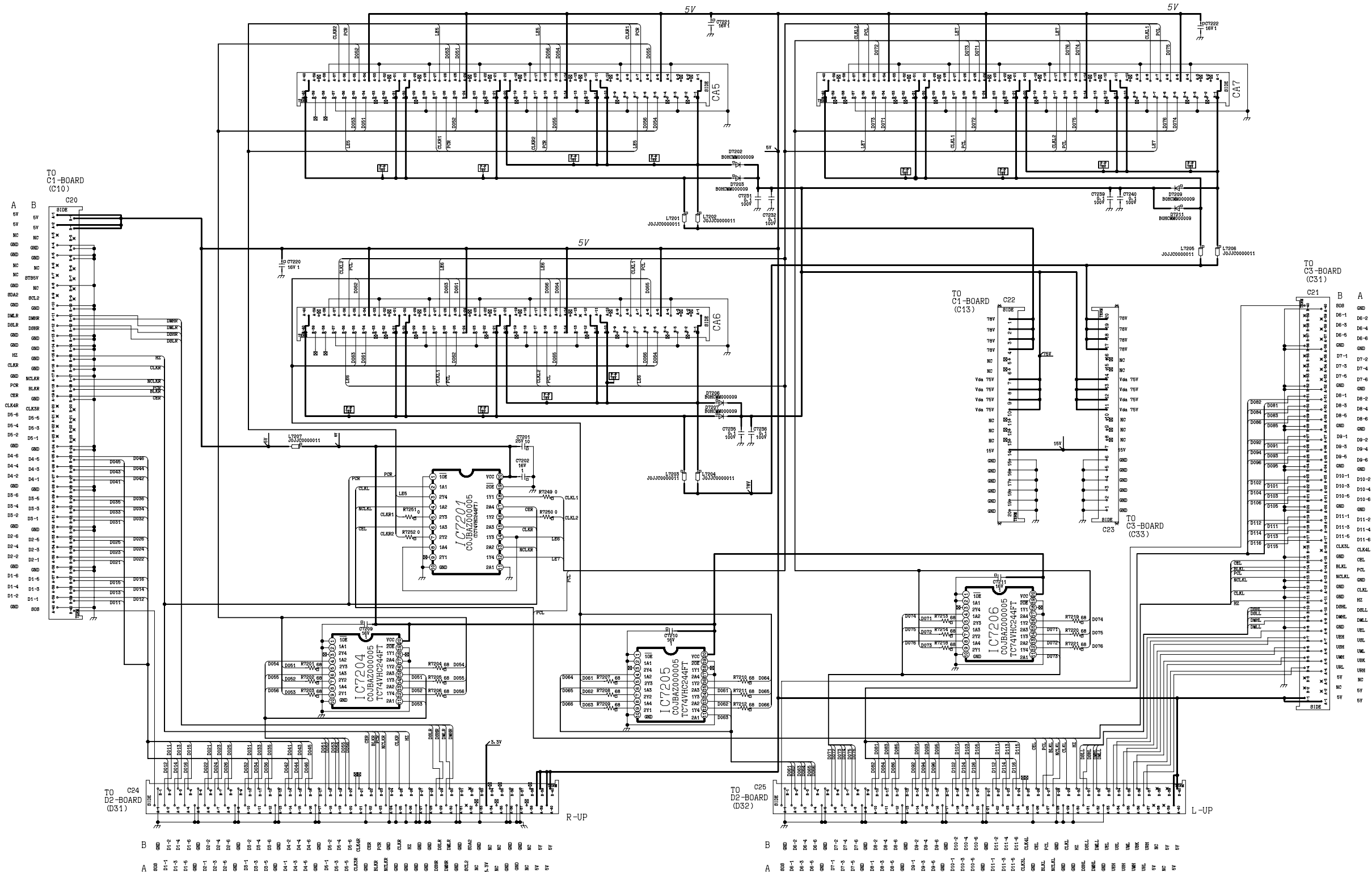
E

F

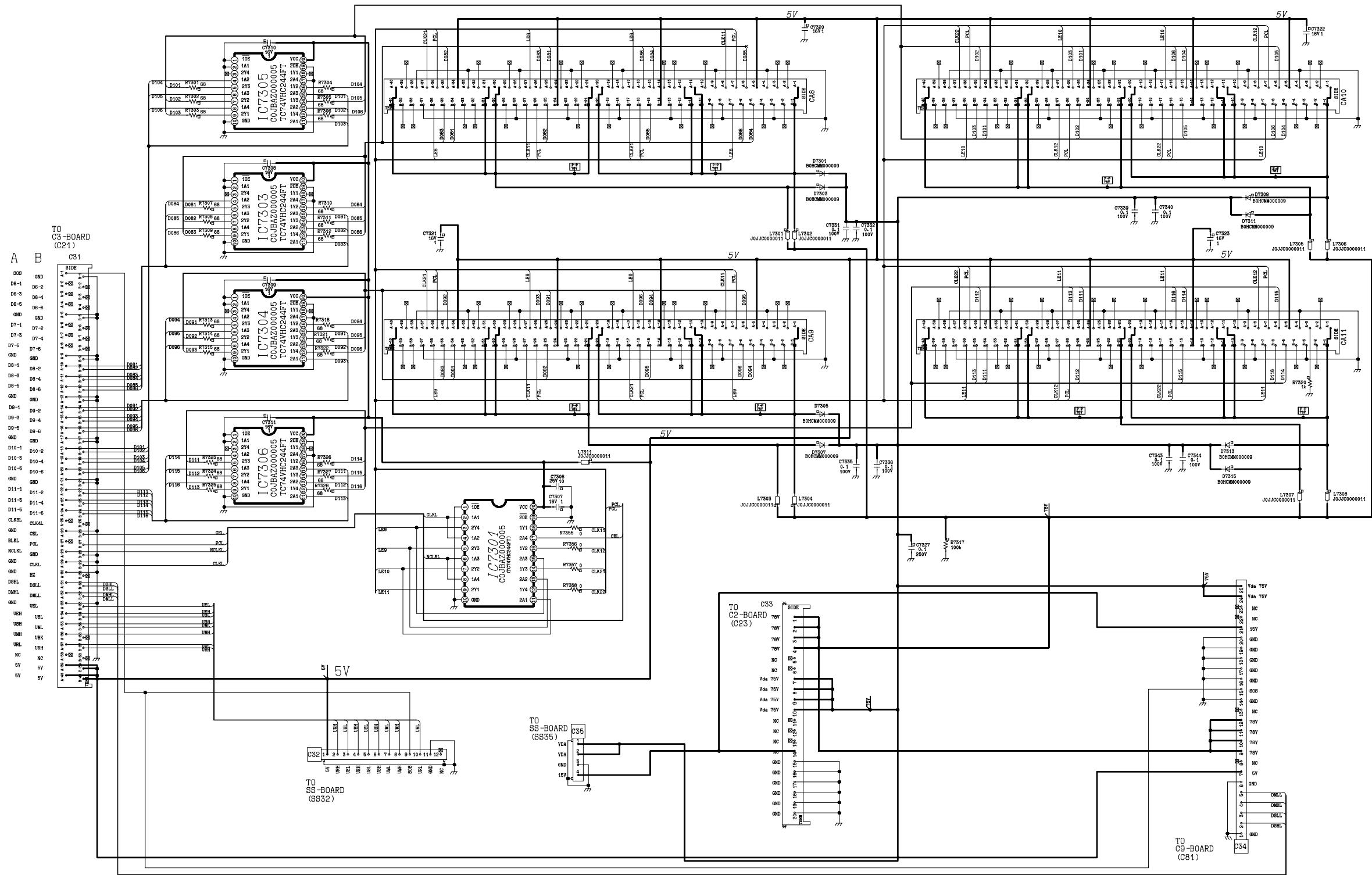


TH-50PHD5/TH-50PHW5 C1-Board Schematic Diagram

TH-50PHD5/TH-50PHW5 C1-Board Schematic Diagram



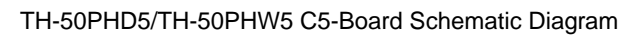
⚠ C3-BOARD TNPA2512



TH-50PHD5/TH-50PHW5 C3-Board Schematic Diagram

TH-50PHD5/TH-50PHW5 C3-Board Schematic Diagram

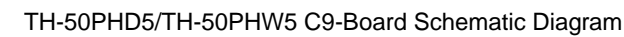
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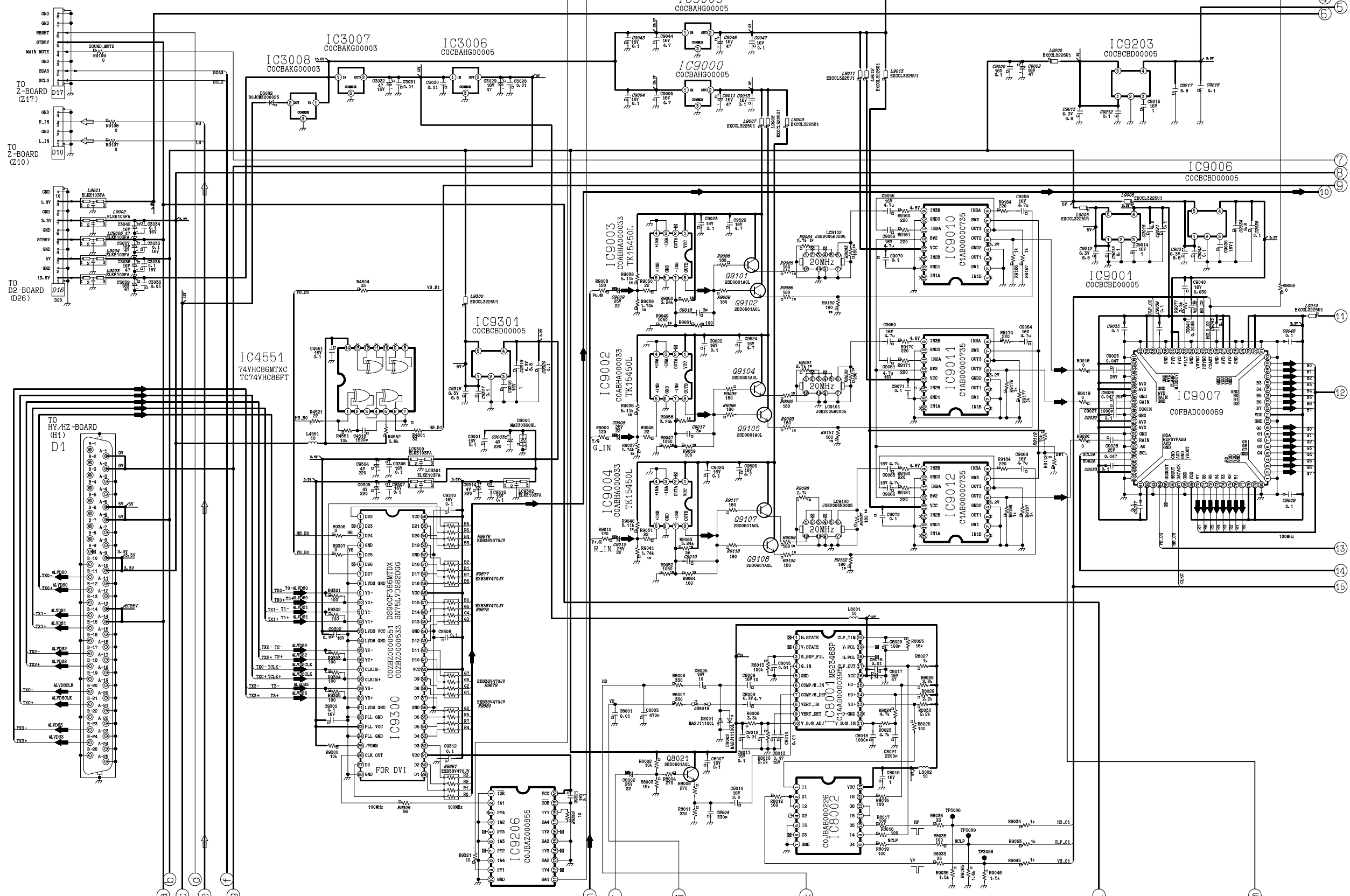


TH-50PHD5/TH-50PHW5 C6-Board Schematic Diagram

E

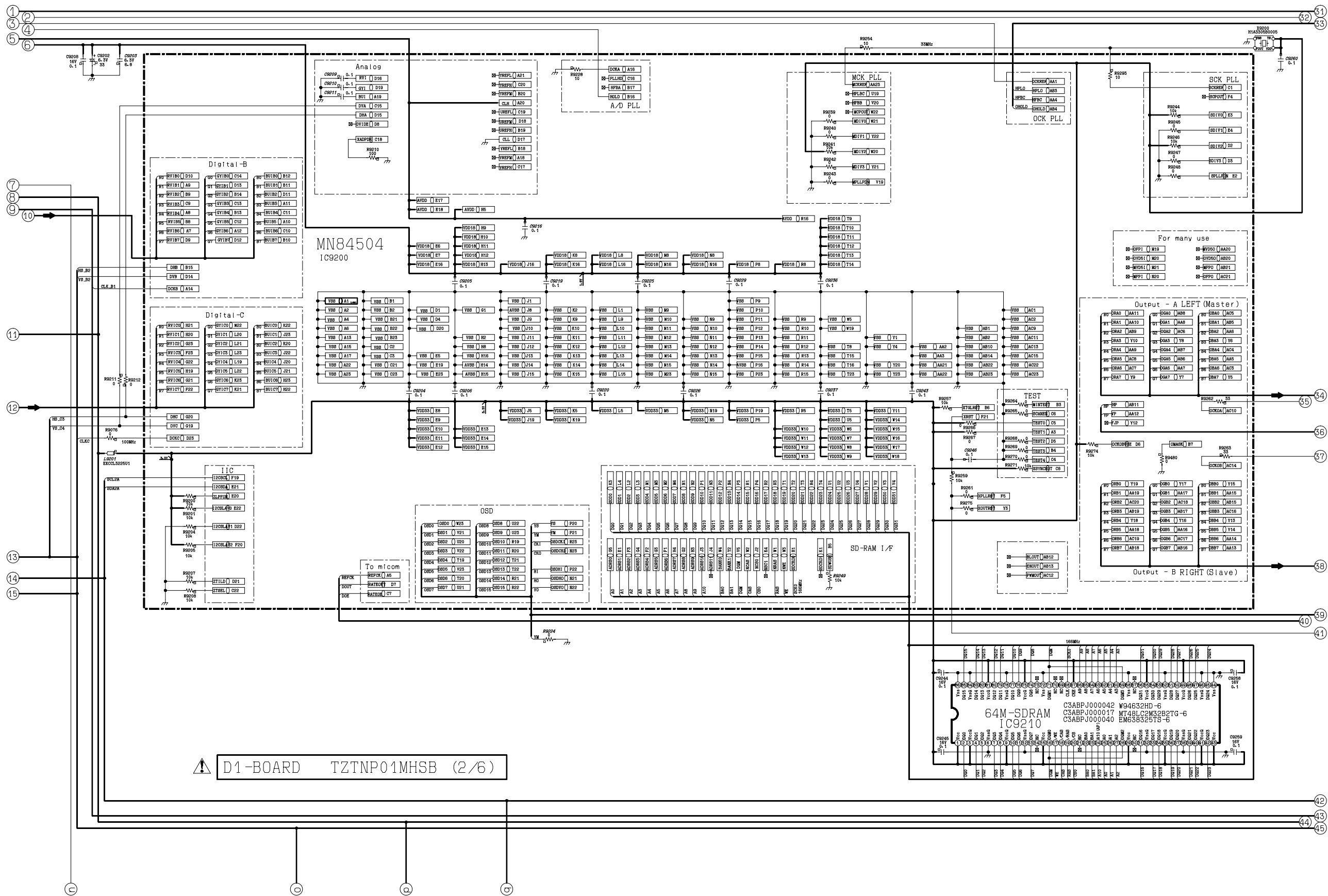


⚠ D1-BOARD TZTNP01MHSB (1/6)



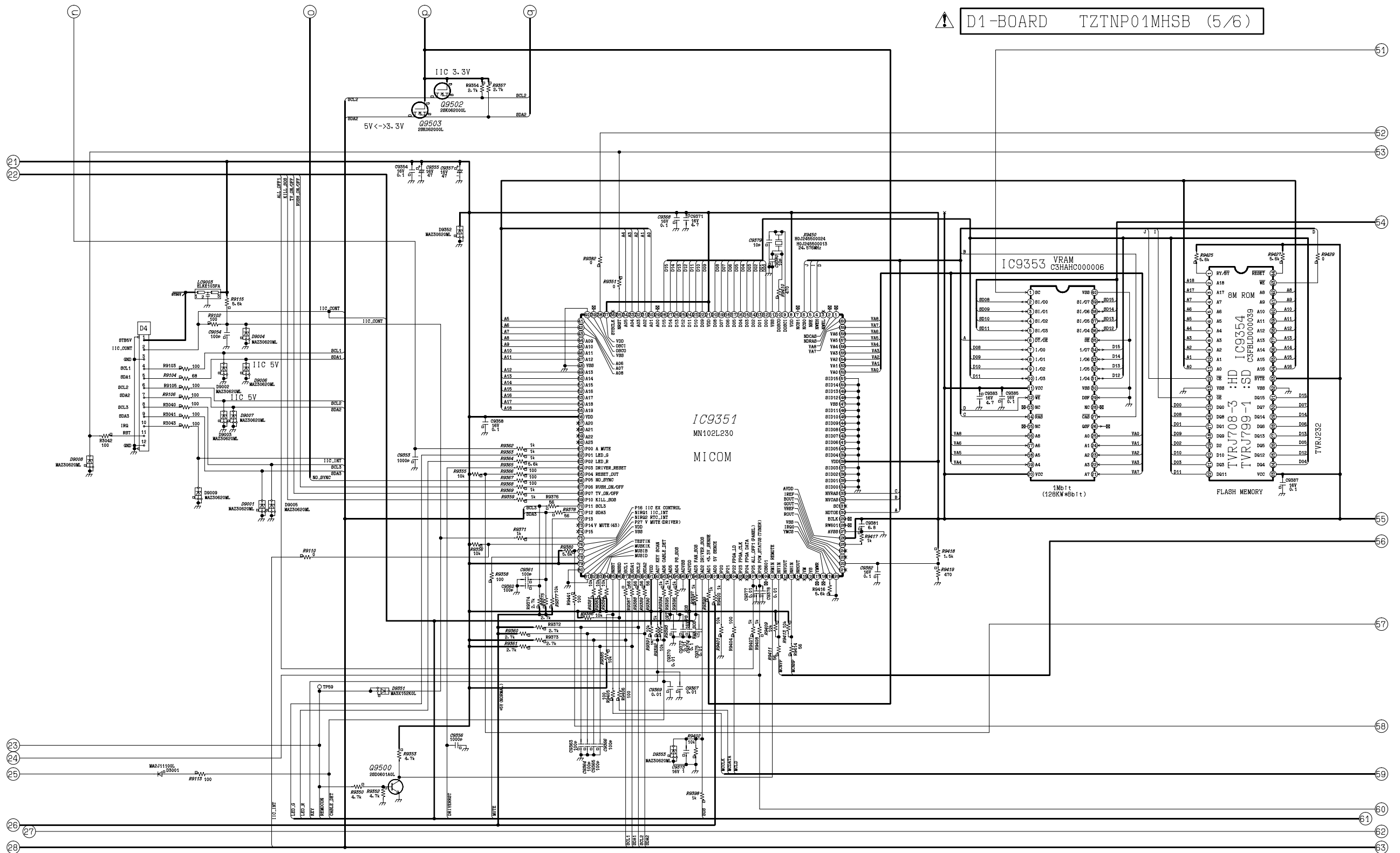
TH-50PHD5/TH-50PHW5 D1-Board (1 of 6) Schematic Diagram

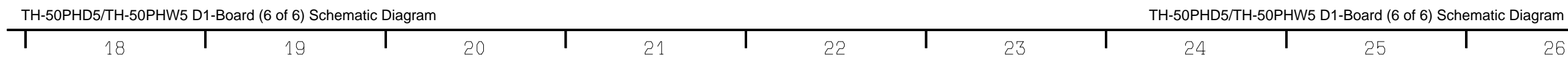
TH-50PHD5/TH-50PHW5 D1-Board (1 of 6) Schematic Diagram

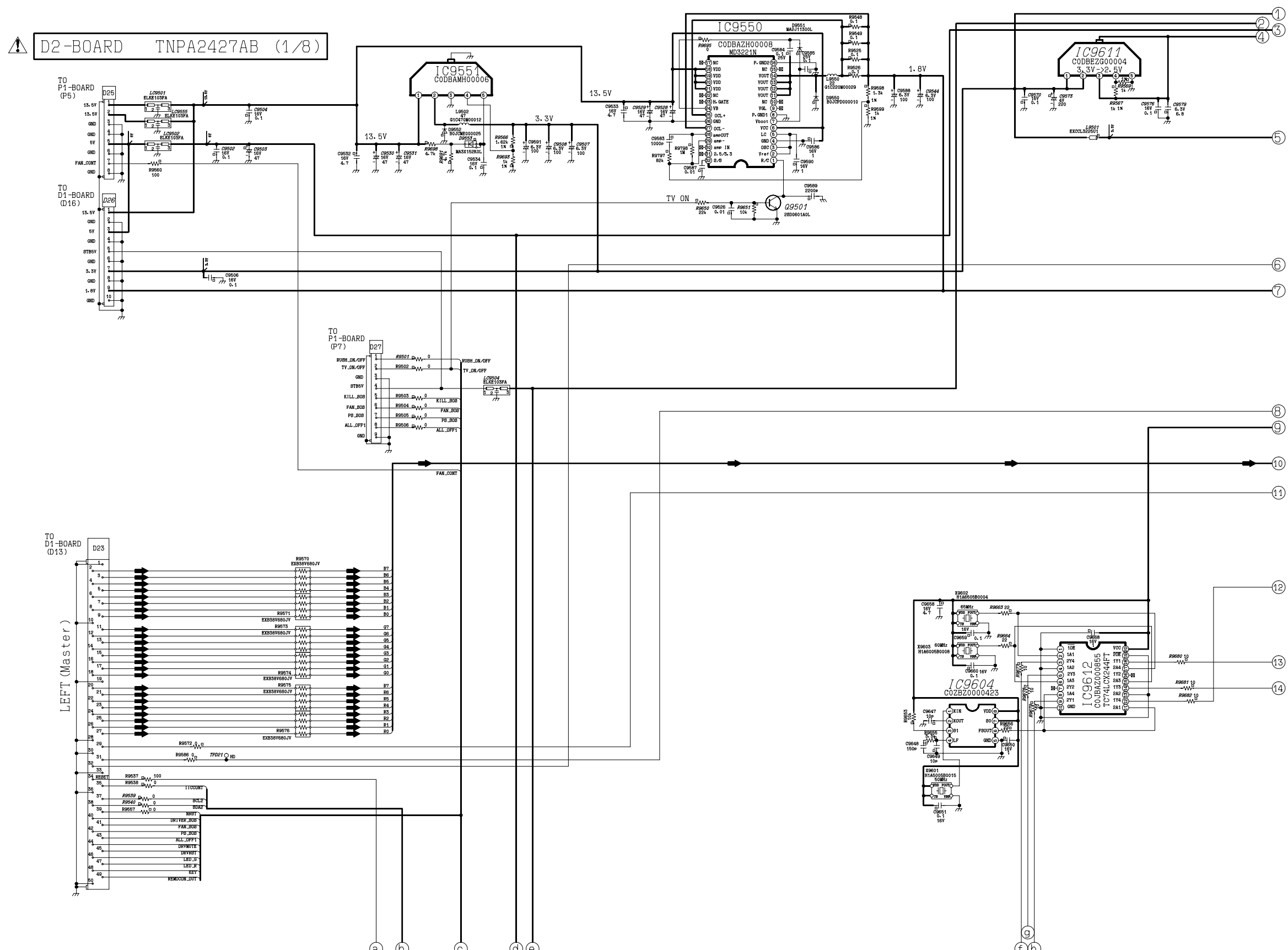






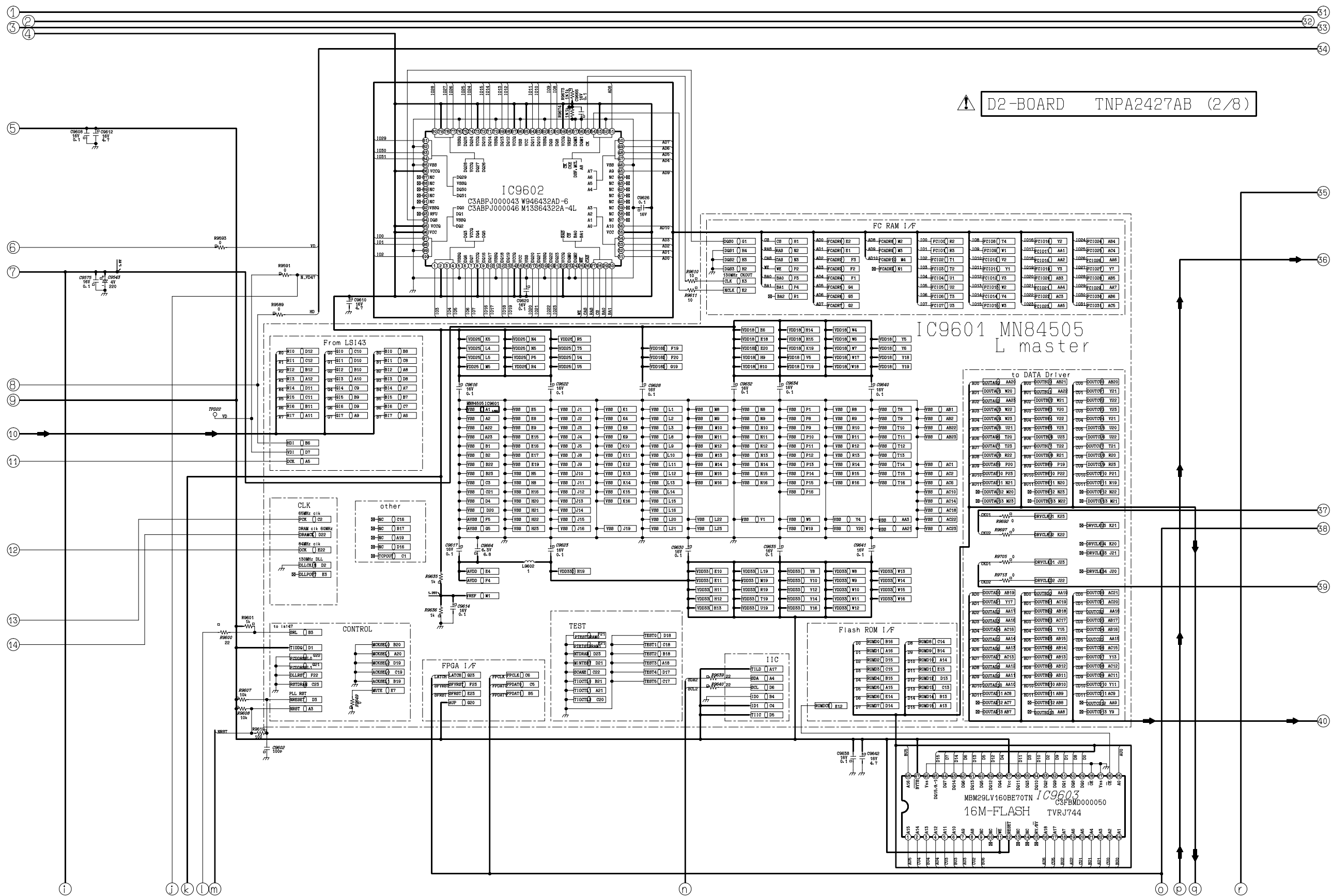






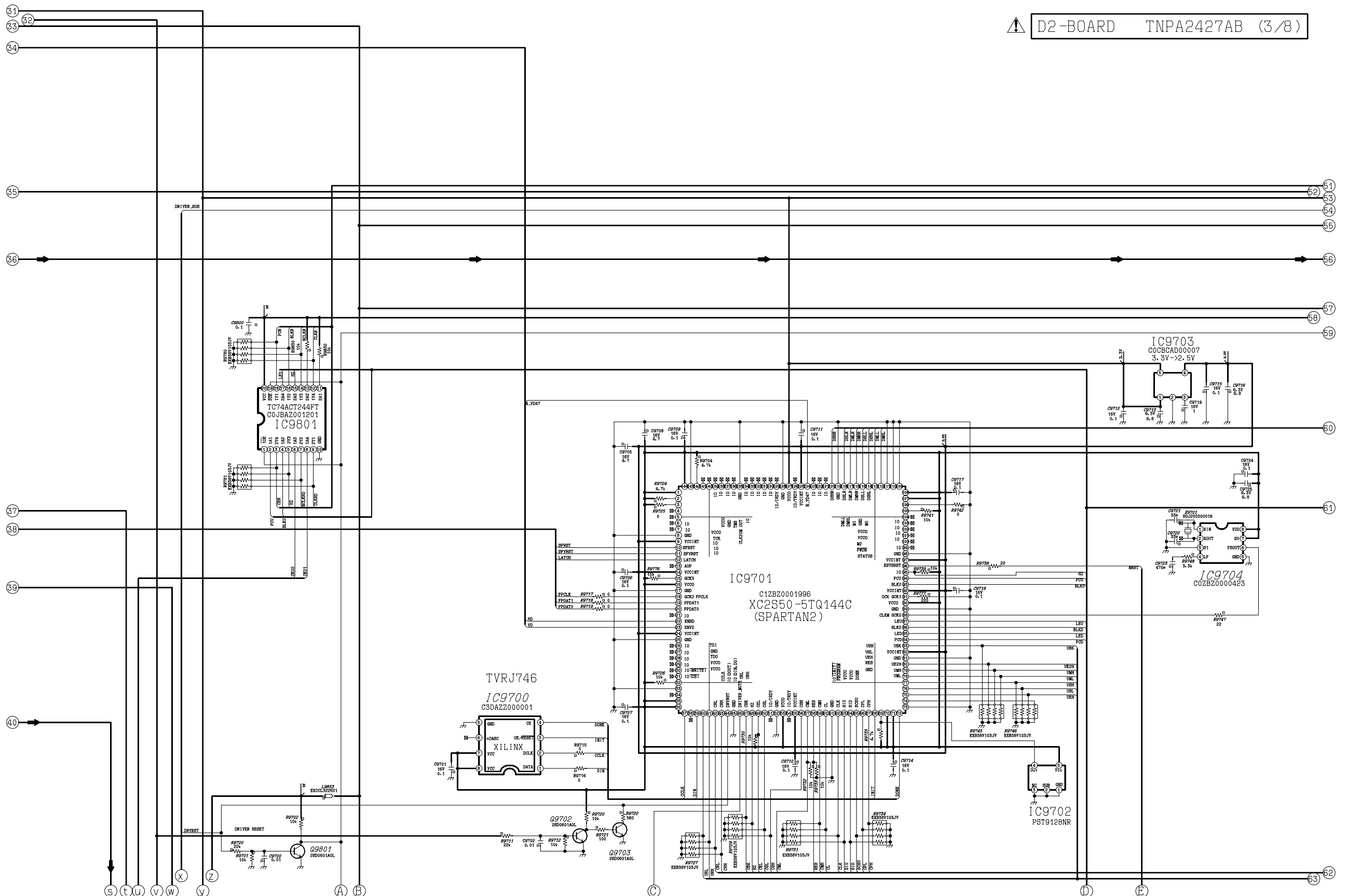
TH-50PHD5/TH-50PHW5 D2-Board (1 of 8) Schematic Diagram

TH-50PHD5/TH-50PHW5 D2-Board (1 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (2 of 8) Schematic Diagram

TH-50PHD5/TH-50PHW5 D2-Board (2 of 8) Schematic Diagram

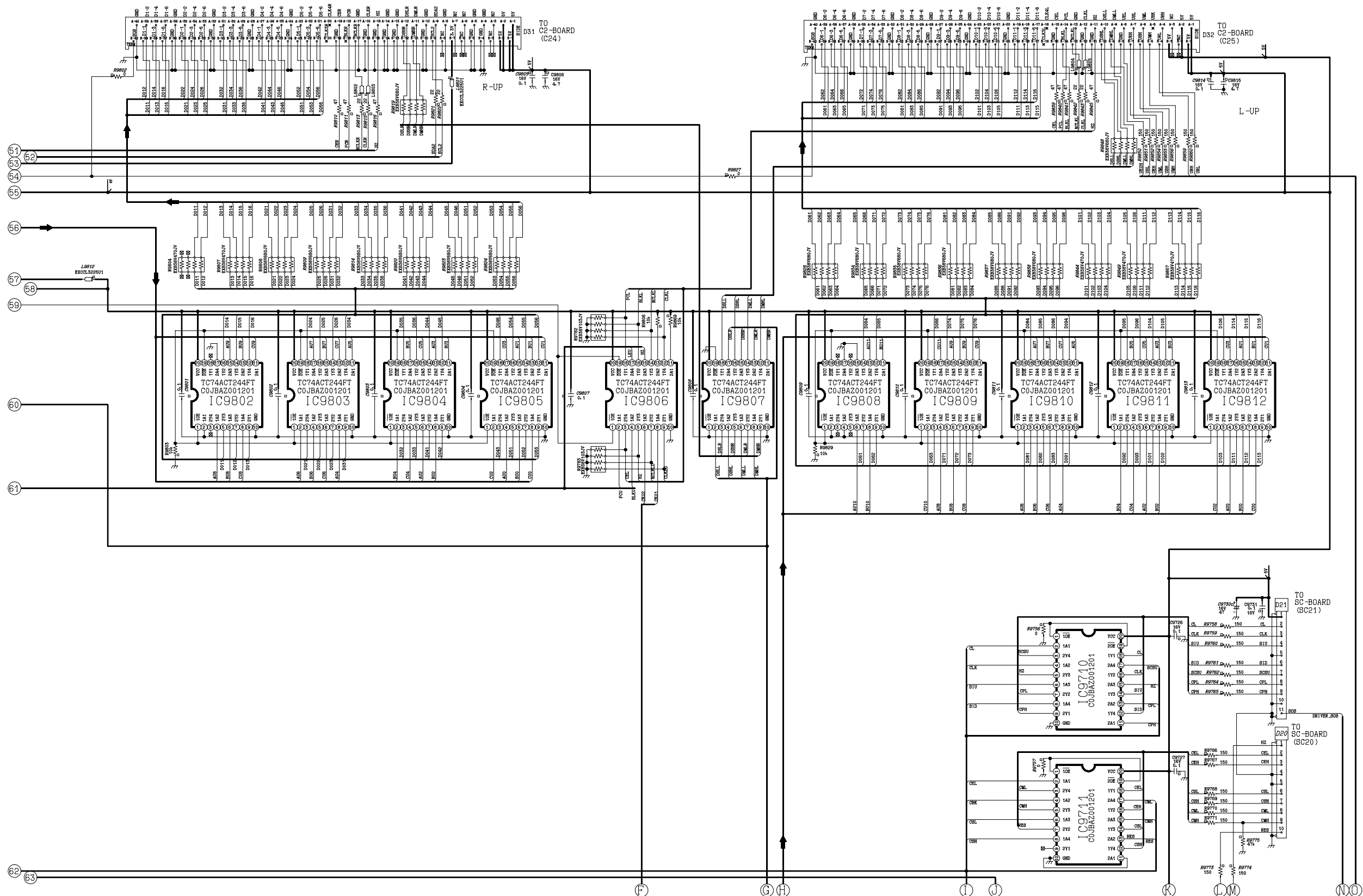


TH-50PHD5/TH-50PHW5 D2-Board (3 of 8) Schematic Diagram

TH-50PHD5/TH-50PHW5 D2-Board (3 of 8) Schematic Diagram

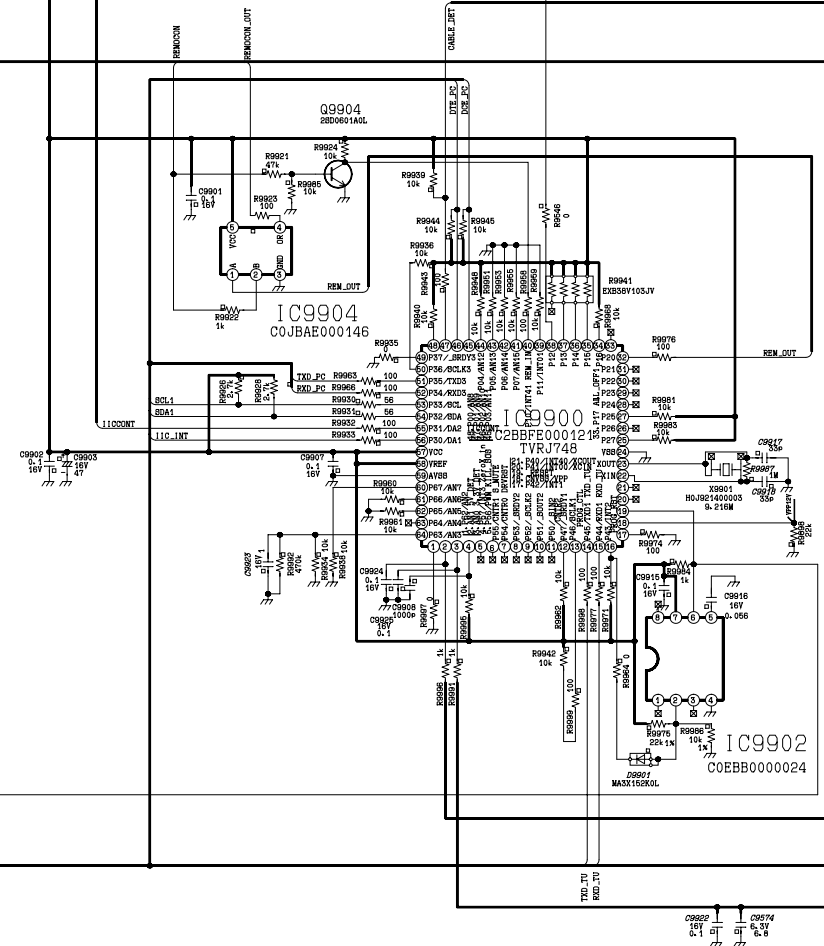
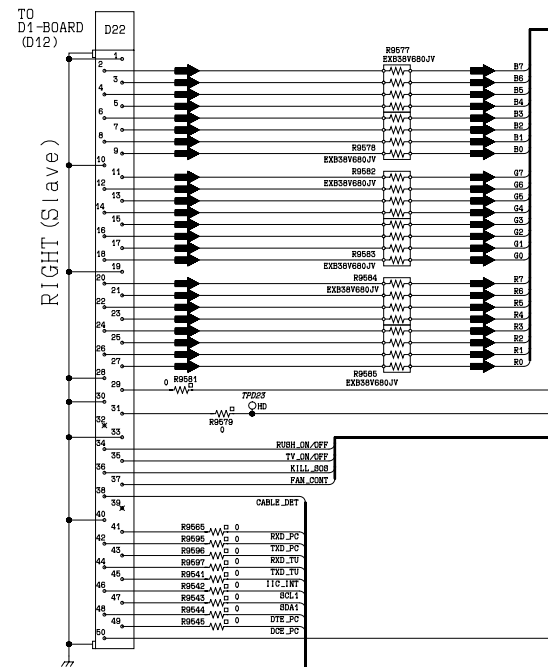


D2-BOARD TNPA2427AB (4/8)

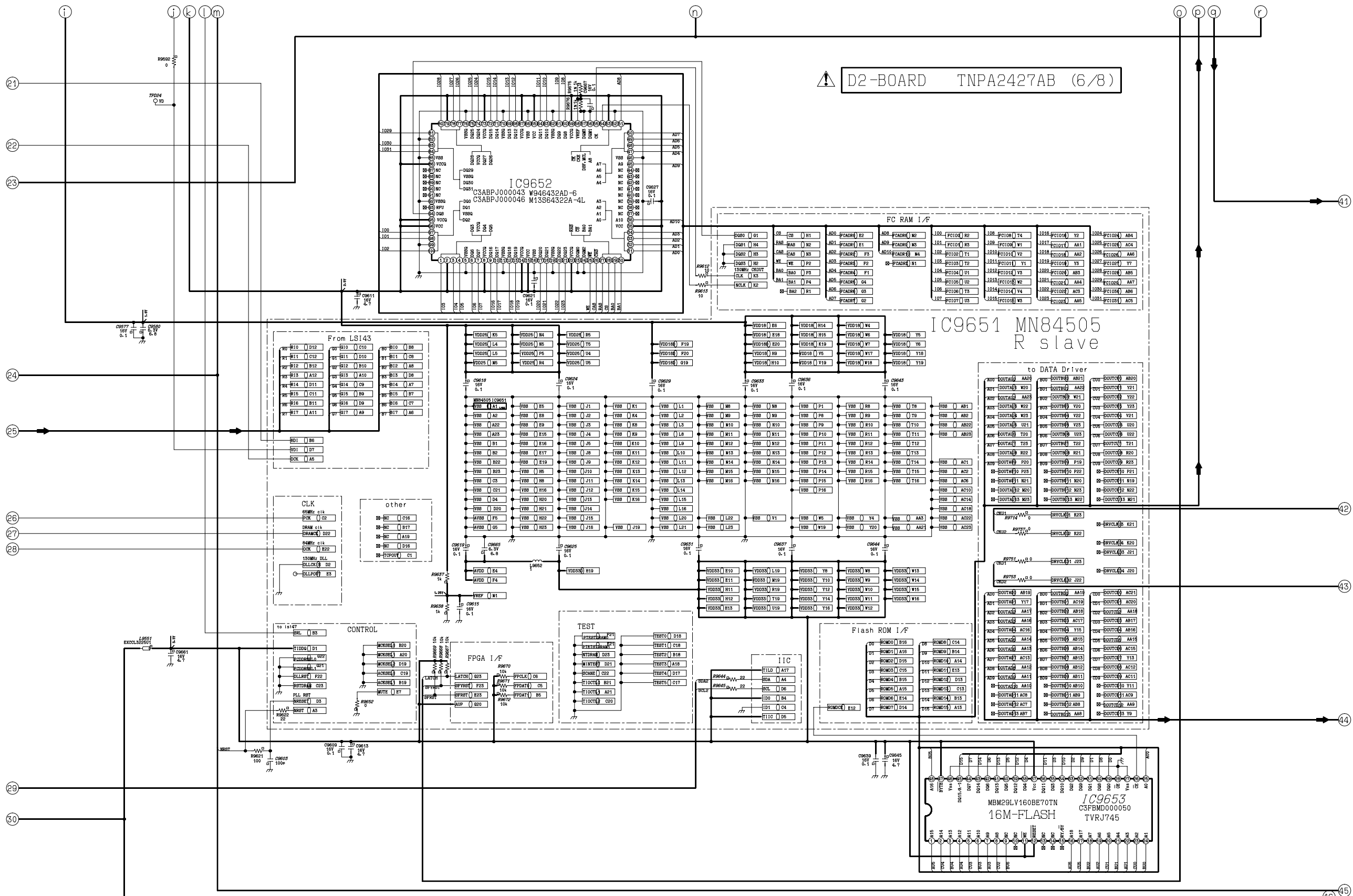


TH-50PHD5/TH-50PHW5 D2-Board (4 of 8) Schematic Diagram

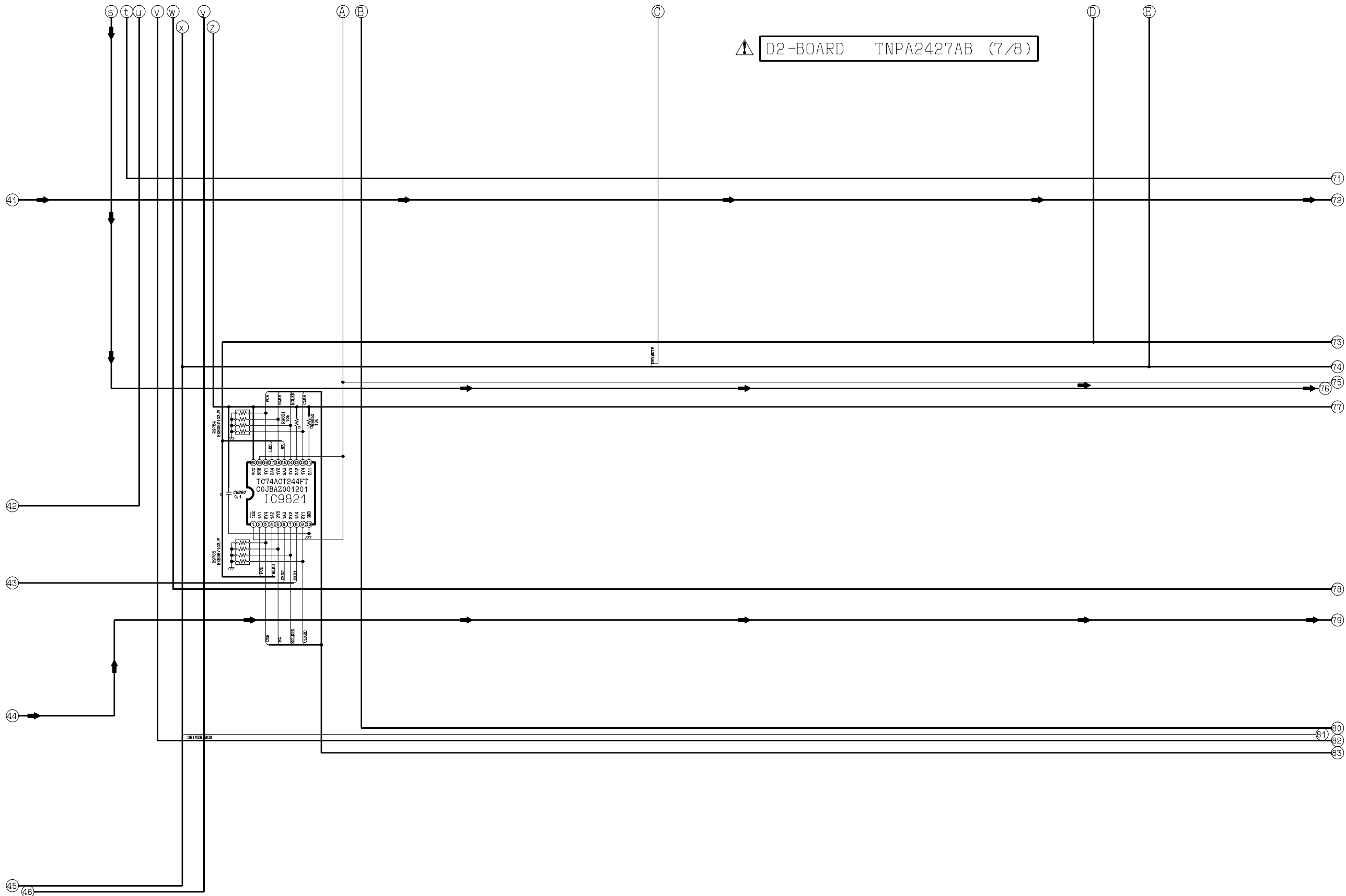
TH-50PHD5/TH-50PHW5 D2-Board (4 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (5 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (6 of 8) Schematic Diagram



TH-50PHD5/TH-50PHW5 D2-Board (7 of 8) Schematic Diagram

TH-50PHD5/TH-50PHW5 D2-Board (7 of 8) Schematic Diagram

TH-50PHD5/TH-50PHW5 D2-Board (8 of 8) Schematic Diagram

A

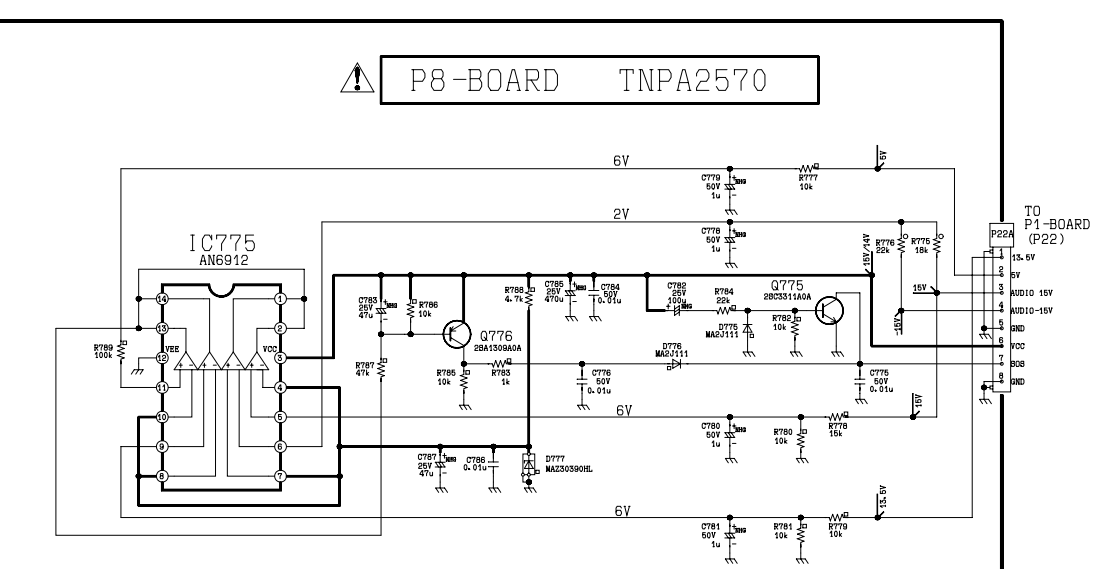
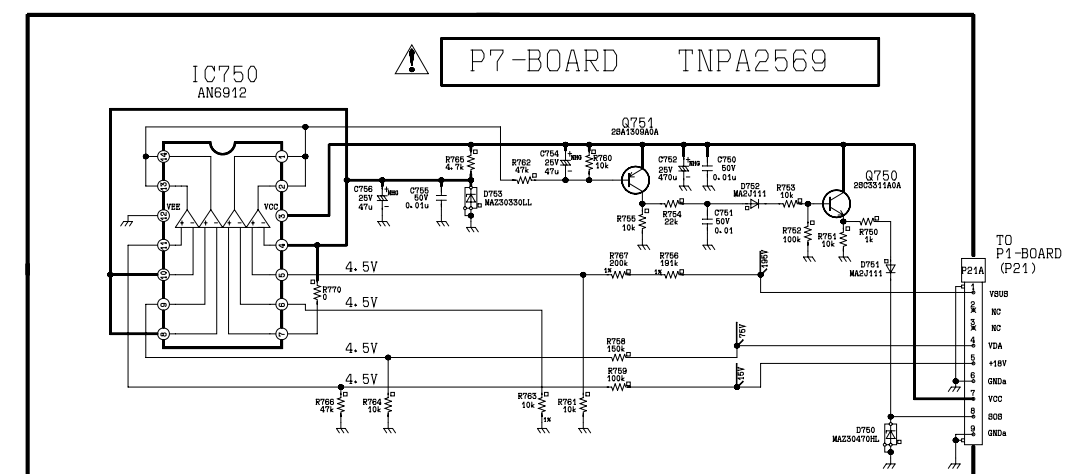
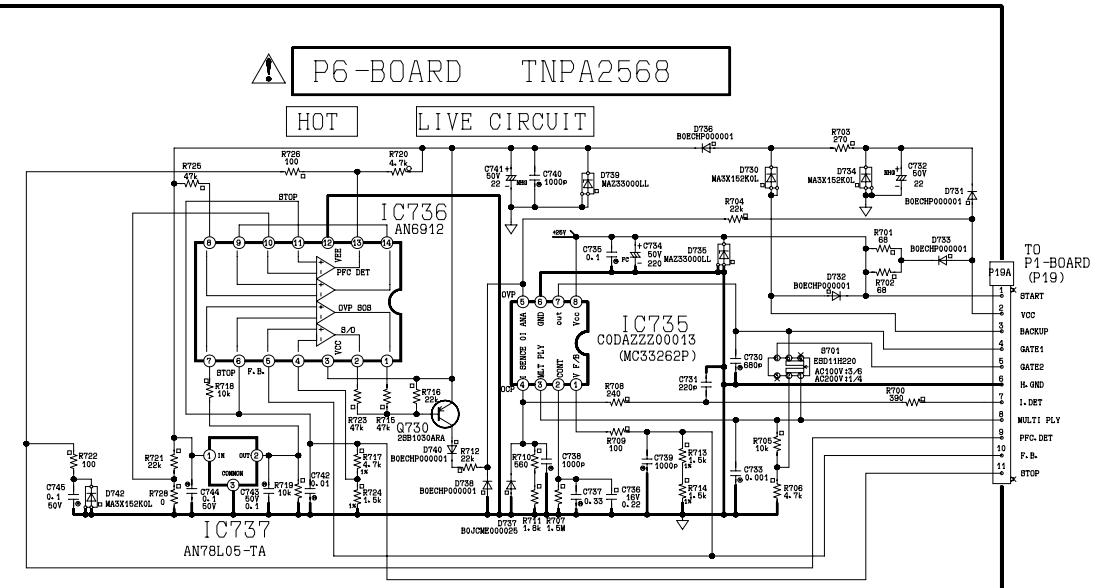
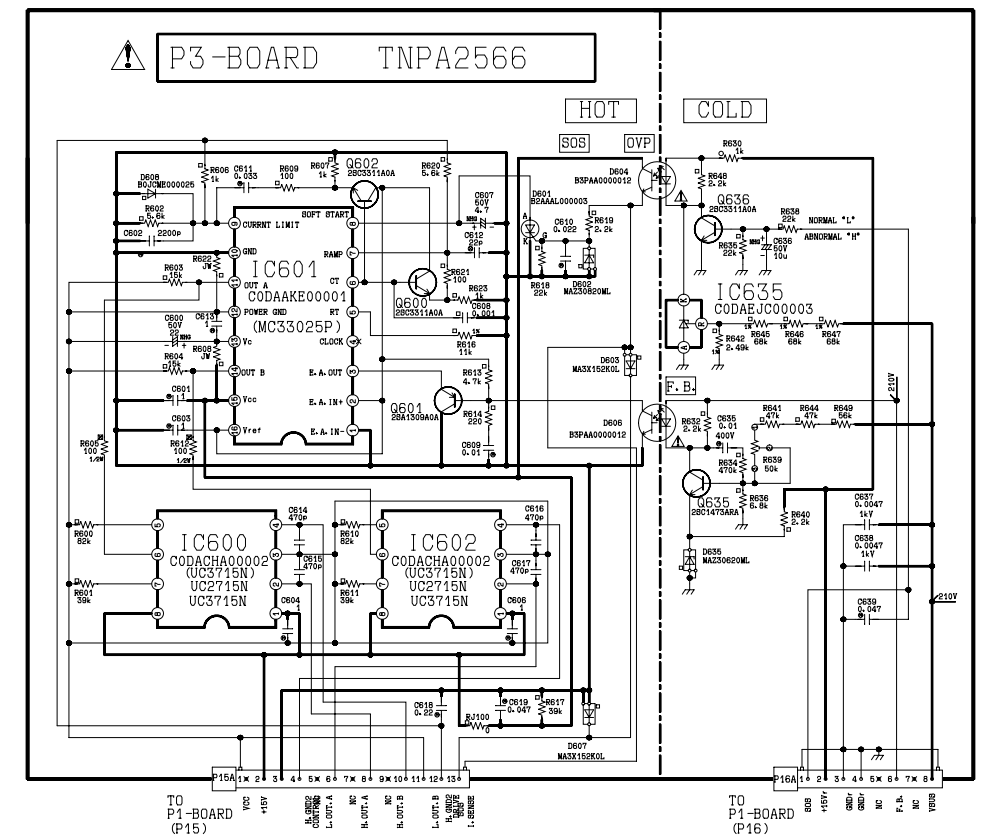
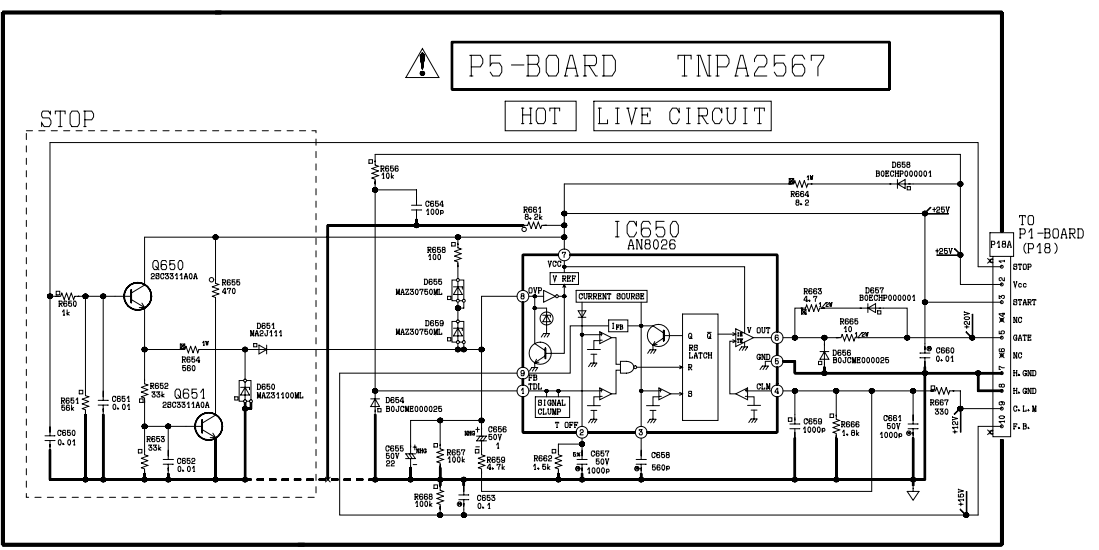
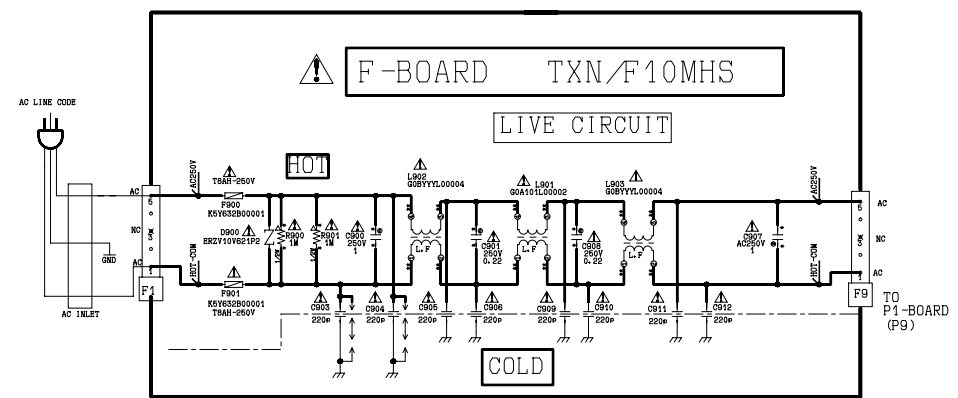
B

C

D

E

F



TH-50PHD5/TH-50PHW5 F,P3,P5,P6,P7 and P8 Schematic Diagram

TH-50PHD5/TH-50PHW5 F,P3,P5,P6,P7 and P8 Schematic Diagram

⚠ HX-BOARD TZTNP02KESE

JK3513
K2HC103B0105
PC AUDIO IN

PC IN
JK3511
TJS8A9880

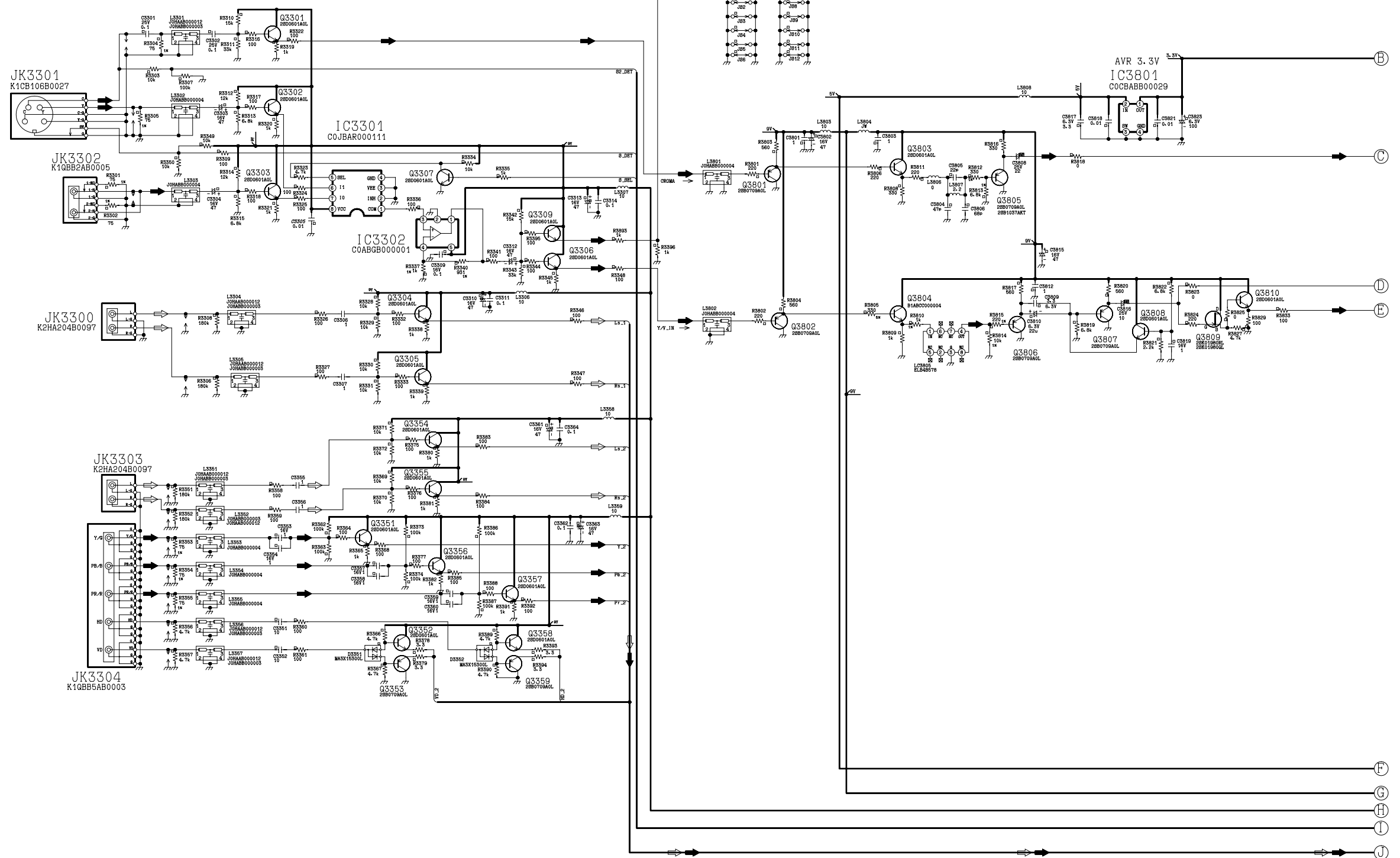
IC3502
C3EBCC000020

JK3509
K1FB125B0050
TJS4A8390

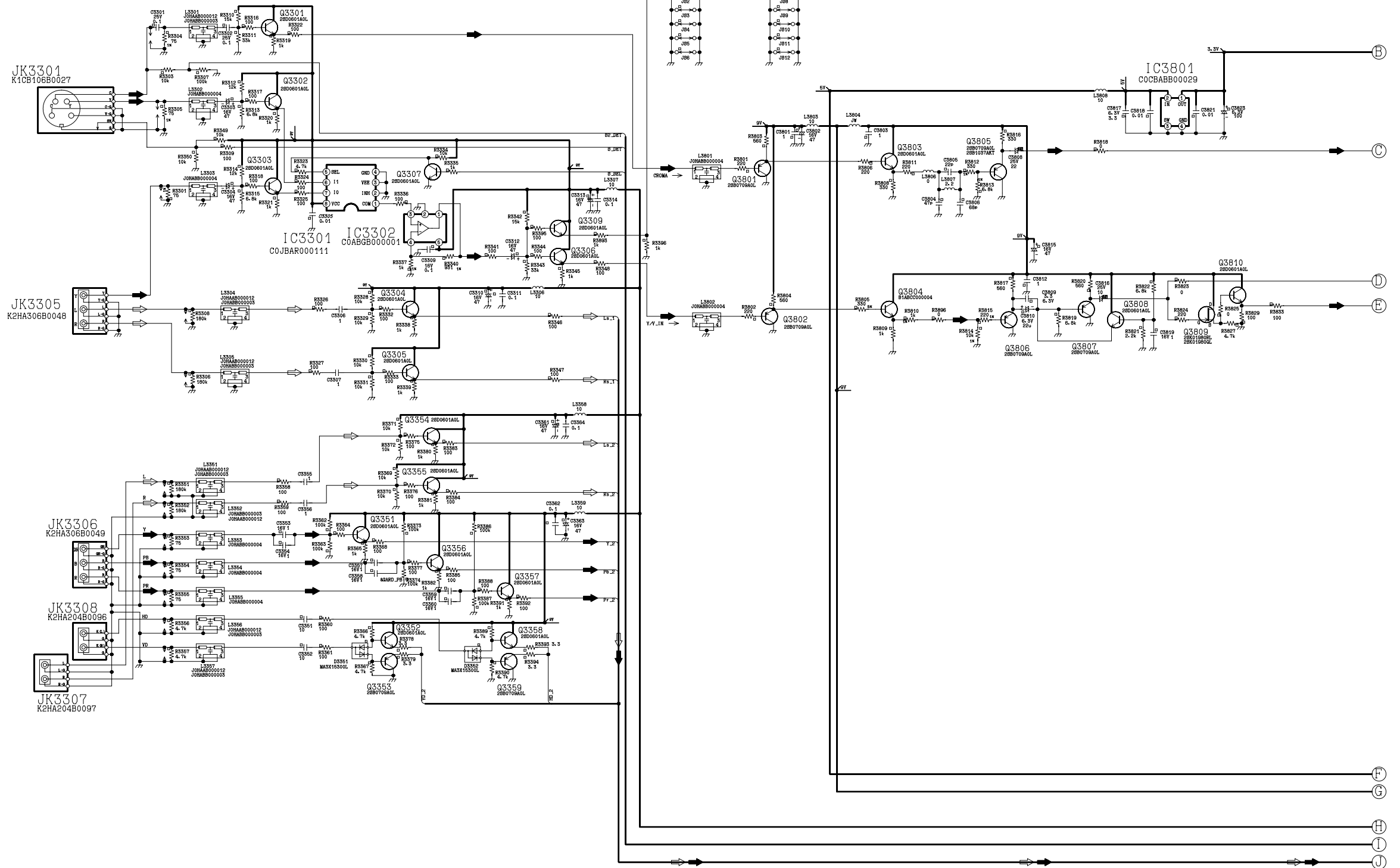
REMOTE_IN
RS-232C

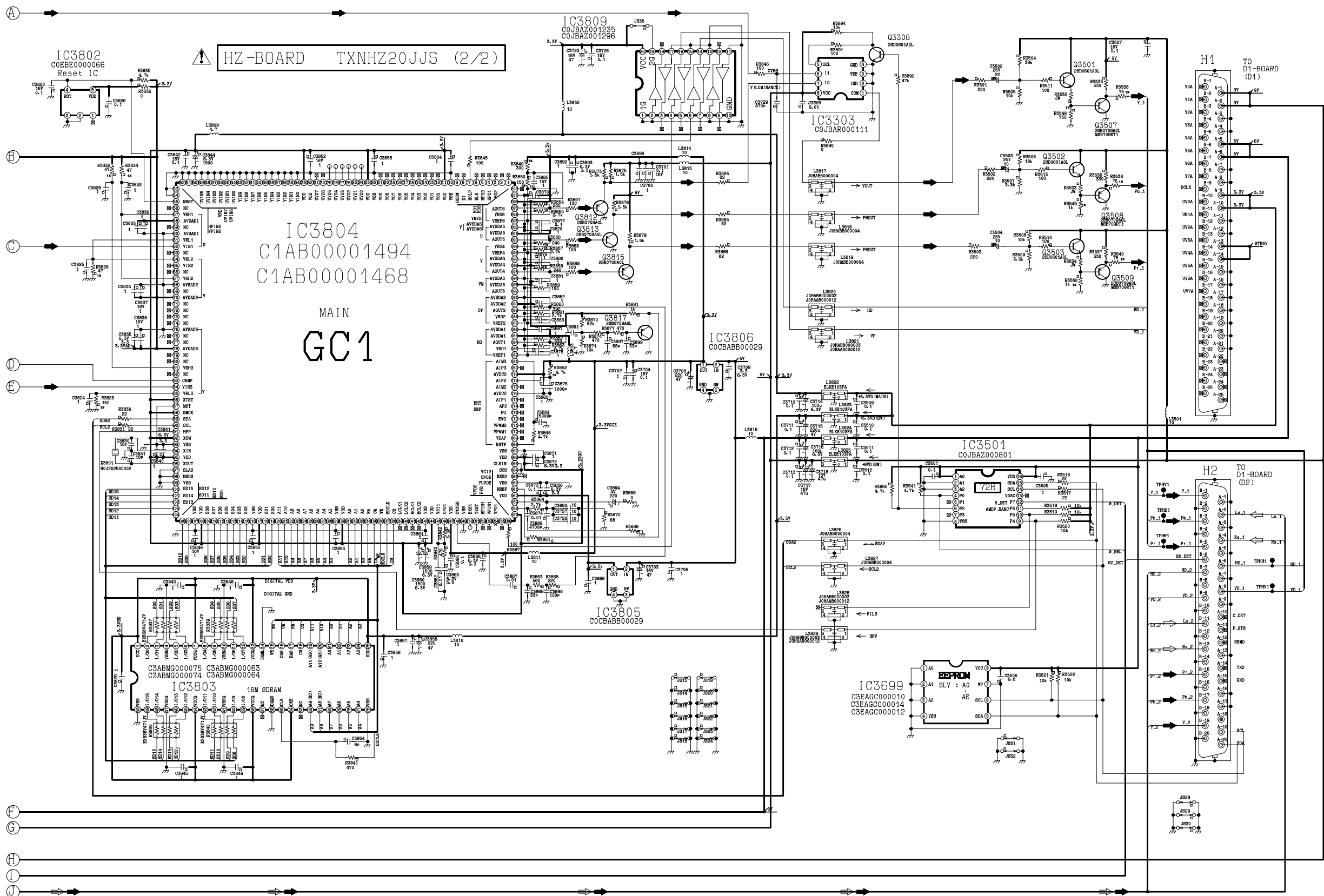
HX1
TO
D1-BOARD
(D3)

⚠ HY-BOARD TXNHY30JHS (1/2)



⚠ HZ-BOARD TXNHZ20JJS (1/2)





TH-50PHD5/TH-50PHW5 HZ-Board (2 of 2) Schematic Diagram

TH-50PHD5/TH-50PHW5 HZ-Board (2 of 2) Schematic Diagram

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. Resistor

All resistors are cabon 1/4W resistor, unless marked as follows:

Unit of resistance is OHM [W] (K=1,000, M=1,000,000).

\bigcirc : Nonflammable	\boxtimes : Metal Oxide
\triangle : Solid	\odot : Metal Film
\square : Wire Wound	\otimes : Fuse:

2. Capacitor

All capacitors are ceramic 50V capacitor, unless marked as follows:

Unit of capacitance is mF, unless otherwise noted.

\otimes : Temperature Compensation	$\begin{array}{c} + \\ \text{---} \text{---} \end{array}$: Electrolytic
\textcircled{M} : Polyester	$\begin{array}{c} \text{NP} \\ \text{---} \text{---} \end{array}$: Bipolar
\textcircled{m} : Metalized Polyester	\textcircled{T} : Dipped Tantalum
\boxtimes : Polypropylene	\textcircled{Z} : Z-Type

3. Coil

Unit of inductance is mF, unless otherwise noted.

4. Test Point

\bigcirc : Test Point position

5. Earth Symbol

$\text{---} \text{---}$: Chassis Earth (Cold) \downarrow : Line Earth (Hot)

6. Voltage Measurement

Voltage is measured by a DC voltmeter.

Conditions of the measurement are the following:

Power SourceAC 120V, 50/60Hz
(UY/UZ VERSION model)/
AC220-240V, 50/60Hz
(Except UY/UZ VERSION)

Receiving Signal Colour Bar signal (RF)

All customer's controls Maximum positions

7. Number in red circle indicates waveform number.

(See waveform pattern table.)

8. When arrow mark (\nearrow) is found, connection is easily found from the direction of arrow

9. Indicates the major signal flow. : Video \Rightarrow Audio \Rightarrow

10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.

All circuits, except the Power Circuit, are cold.

Precautions

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
 - b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
 - c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.
 - d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

TNPA2434AB (1/2)

TH-50PHD5/TH-50PHW5 SC-Board (1 of 2) Schematic Diagram



9

14

A

B

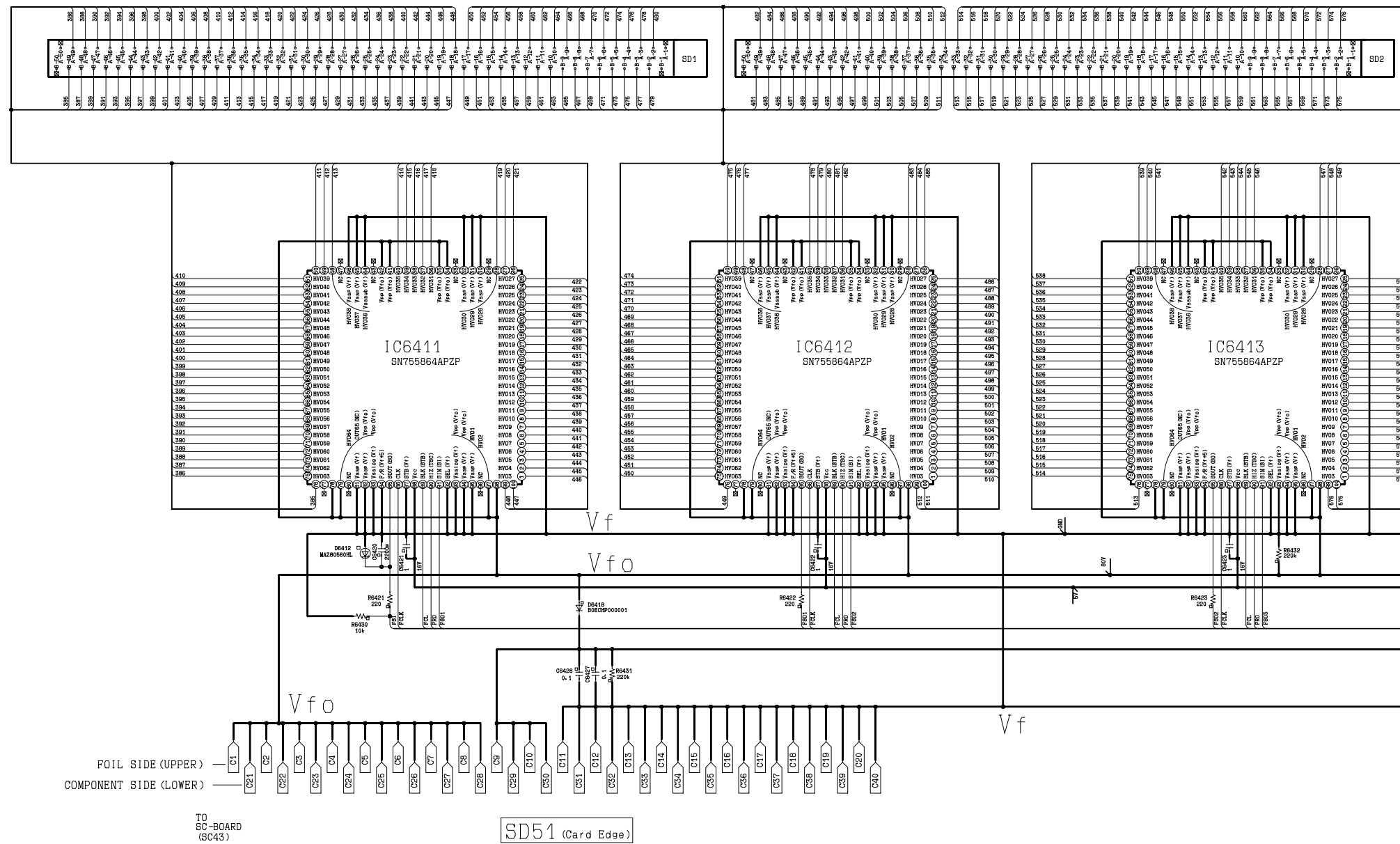
C

D

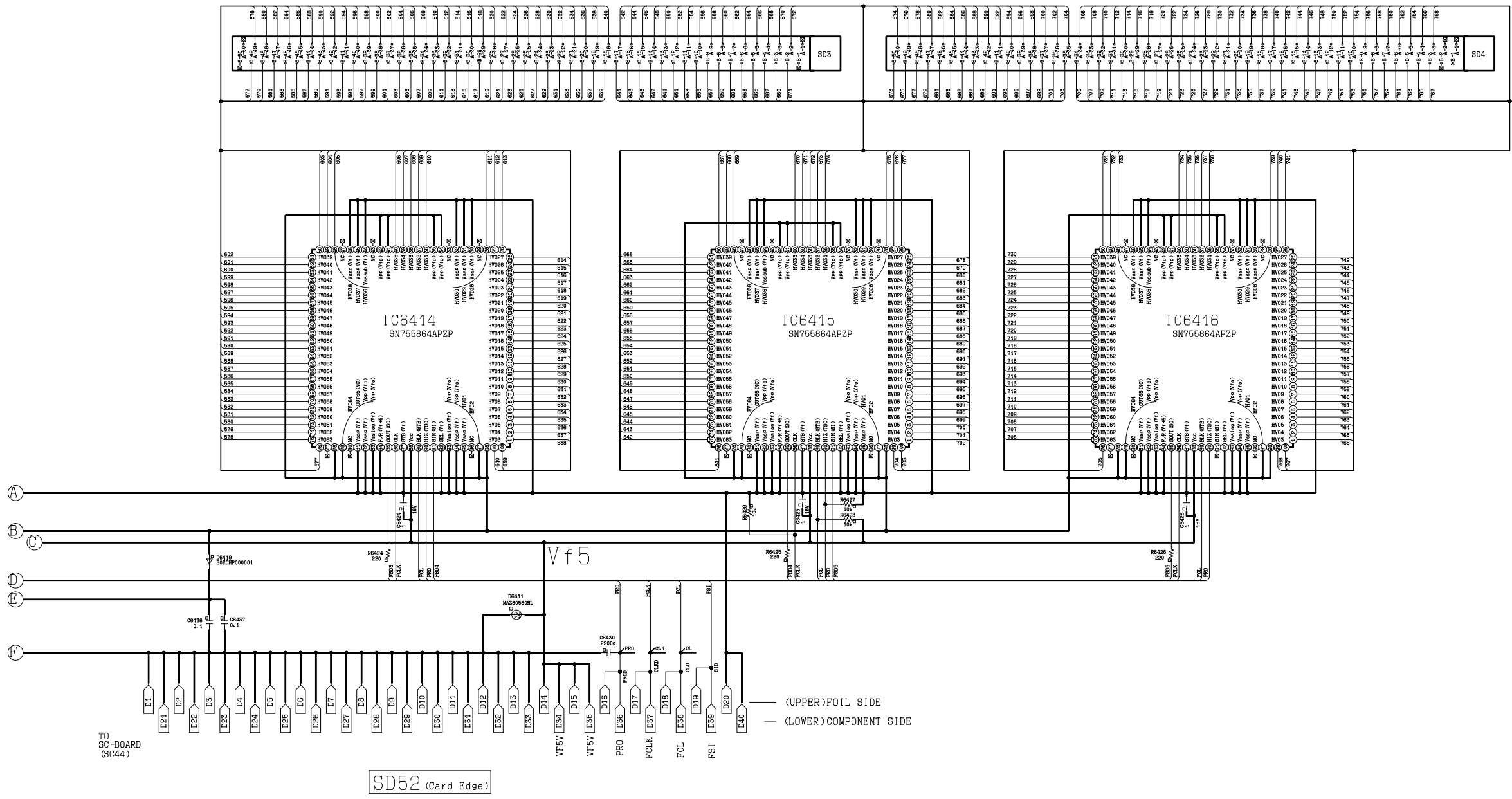
E

F

SD-BOARD TNPA2518 (1/2)



DOWN



F



TNPA2517 (2/2)



TH-50PHD5/TH-50PHW5 SU-Board (2 of 2) Schematic Diagram